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Basic Notions on (Neutrosophic) SuperHyperForcing and (Neutrosophic) SuperHyperModeling in Cancer's Recognitions and (Neutrosophic) SuperHyperGraphs

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Abstract: In this research, assume a SuperHyperGraph. Then a "SuperHyperForcing" $\mathcal{Z}(NSHG)$ for a neutrosophic SuperHyperGraph $NSHG : (V, E)$ is the minimum cardinality of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex; a "neutrosophic SuperHyperForcing" $\mathcal{Z}_n(NSHG)$ for a neutrosophic SuperHyperGraph $NSHG : (V, E)$ is the minimum neutrosophic cardinality of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. Assume a SuperHyperGraph. Then a "SuperHyperForcing" $\mathcal{Z}(NSHG)$ for a neutrosophic SuperHyperGraph $NSHG : (V, E)$ is the minimum cardinality of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex; a "neutrosophic SuperHyperForcing" $\mathcal{Z}_n(NSHG)$ for a neutrosophic SuperHyperGraph $NSHG : (V, E)$ is the minimum neutrosophic cardinality of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. Assume a SuperHyperGraph. Then an "$\delta-$SuperHyperForcing" is a <u>minimal</u> SuperHyperForcing of SuperHyperVertices with <u>minimum</u> cardinality such that either of the following expressions hold for the (neutrosophic) cardinalities of SuperHyperNeighbors of $s \in S : |S \cap N(s)| > |S \cap (V \setminus N(s))| + \delta, |S \cap N(s)| < |S \cap (V \setminus N(s))| + \delta$. The first Expression, holds if S is an "$\delta-$SuperHyperOffensive". And the second Expression, holds if S is an "$\delta-$SuperHyperDefensive"; a "neutrosophic $\delta-$SuperHyperForcing" is a <u>minimal</u> neutrosophic SuperHyperForcing of SuperHyperVertices with <u>minimum</u> neutrosophic cardinality such that either of the following expressions hold for the neutrosophic cardinalities of SuperHyperNeighbors of $s \in S : |S \cap N(s)|_{neutrosophic} > |S \cap (V \setminus N(s))|_{neutrosophic} + \delta, |S \cap N(s)|_{neutrosophic} < |S \cap (V \setminus N(s))|_{neutrosophic} + \delta$. The first Expression, holds if S is a "neutrosophic $\delta-$SuperHyperOffensive". And the second Expression, holds if S is a "neutrosophic $\delta-$SuperHyperDefensive". It's useful to define "neutrosophic" version of SuperHyperForcing. Since there's more ways to get type-results to make SuperHyperForcing more understandable. For the sake of having neutrosophic SuperHyperForcing, there's a need to "redefine" the notion of "SuperHyperForcing". The SuperHyperVertices and the SuperHyperEdges are assigned by the labels from the letters of the alphabets. In this procedure, there's the usage of the position of labels to assign to the values. A basic familiarity with SuperHyperGraph theory and neutrosophic SuperHyperGraph theory are proposed.

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1. Background

Look at [1–16] for some researches.

2. SuperHyperForcing

Definition 1. *((neutrosophic) SuperHyperForcing).*
Assume a SuperHyperGraph. Then

(i) *a* **SuperHyperForcing** $\mathcal{Z}(NSHG)$ *for a neutrosophic SuperHyperGraph* $NSHG : (V, E)$ *is the minimum cardinality of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex;*

(ii) *a* **neutrosophic SuperHyperForcing** $\mathcal{Z}_n(NSHG)$ *for a neutrosophic SuperHyperGraph* $NSHG : (V, E)$ *is the minimum neutrosophic cardinality of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex.*

Definition 2. *((neutrosophic)$\delta-$ SuperHyperForcing).*
Assume a SuperHyperGraph. Then

(i) *an $\delta-$**SuperHyperForcing** is a <u>minimal</u> SuperHyperForcing of SuperHyperVertices with <u>minimum</u> cardinality such that either of the following expressions hold for the (neutrosophic) cardinalities of SuperHyperNeighbors of $s \in S$:*

$$|S \cap N(s)| > |S \cap (V \setminus N(s))| + \delta; \tag{1}$$
$$|S \cap N(s)| < |S \cap (V \setminus N(s))| + \delta. \tag{2}$$

*The Expression (5), holds if S is an $\delta-$**SuperHyperOffensive**. And the Expression (6), holds if S is an $\delta-$**SuperHyperDefensive**;*

(ii) *a* **neutrosophic** *$\delta-$**SuperHyperForcing** is a <u>minimal</u> neutrosophic SuperHyperForcing of SuperHyperVertices with <u>minimum</u> neutrosophic cardinality such that either of the following expressions hold for the neutrosophic cardinalities of SuperHyperNeighbors of $s \in S$:*

$$|S \cap N(s)|_{neutrosophic} > |S \cap (V \setminus N(s))|_{neutrosophic} + \delta; \tag{3}$$
$$|S \cap N(s)|_{neutrosophic} < |S \cap (V \setminus N(s))|_{neutrosophic} + \delta. \tag{4}$$

The Expression (7), holds if S is a **neutrosophic** *$\delta-$**SuperHyperOffensive**. And the Expression (8), holds if S is a* **neutrosophic** *$\delta-$**SuperHyperDefensive**.*

Example 1. *Assume the SuperHyperGraphs in the Figures 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, and 20.*

- *On the Figure 1, the SuperHyperNotion, namely, SuperHyperForcing, is up. E_1 and E_3 are some empty SuperHyperEdges but E_2 is a loop SuperHyperEdge and E_4 is an SuperHyperEdge. Thus in the terms*

of SuperHyperNeighbor, there's only one SuperHyperEdge, namely, E_4. The SuperHyperVertex, V_3 is isolated means that there's no SuperHyperEdge has it as an endpoint. Thus SuperHyperVertex, V_3, is contained in every given SuperHyperForcing. All the following SuperHyperSets of SuperHyperVertices are the simple type-SuperHyperSet of the SuperHyperForcing.

$$\{V_3, V_1, V_2\}$$
$$\{V_3, V_1, V_4\}$$
$$\{V_3, V_2, V_4\}$$

*The SuperHyperSet of the SuperHyperVertices, $\{V_3, V_2, V_4, V_1\}$, is a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex but it isn't a SuperHyperForcing. Since it doesn't have **the minimum cardinality** of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only one SuperHyperVertex outside the intended SuperHyperSet. Thus the obvious SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$.*

- *On the Figure 2, the SuperHyperNotion, namely, SuperHyperForcing, is up. E_1, E_2 and E_3 are some empty SuperHyperEdges but E_4 is an SuperHyperEdge. Thus in the terms of SuperHyperNeighbor, there's only one SuperHyperEdge, namely, E_4. The SuperHyperVertex, V_3 is isolated means that there's no SuperHyperEdge has it as an endpoint. Thus SuperHyperVertex, V_3, is contained in every given SuperHyperForcing. All the following SuperHyperSets of SuperHyperVertices are the simple type-SuperHyperSet of the SuperHyperForcing.*

$$\{V_3, V_1, V_2\}$$
$$\{V_3, V_1, V_4\}$$
$$\{V_3, V_2, V_4\}$$

*The SuperHyperSet of the SuperHyperVertices, $\{V_3, V_2, V_4, V_1\}$, is a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex but it isn't a SuperHyperForcing. Since it doesn't have **the minimum cardinality** of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only one SuperHyperVertex outside the intended SuperHyperSet. Thus the obvious SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$.*

- *On the Figure 3, the SuperHyperNotion, namely, SuperHyperForcing, is up. E_1, E_2 and E_3 are some empty SuperHyperEdges but E_4 is an SuperHyperEdge. Thus in the terms of SuperHyperNeighbor, there's*

only one SuperHyperEdge, namely, E_4. All the following SuperHyperSets of SuperHyperVertices are the simple type-SuperHyperSet of the SuperHyperForcing.

$$\{V_1, V_2\}$$
$$\{V_1, V_3\}$$
$$\{V_2, V_3\}$$

*The SuperHyperSet of the SuperHyperVertices, $\{V_1, V_2, V_3\}$, is a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex but it isn't a SuperHyperForcing. Since it doesn't have **the minimum cardinality** of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only one SuperHyperVertex outside the intended SuperHyperSet. Thus the obvious SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$. Thus all the following SuperHyperSets of SuperHyperVertices are the simple type-SuperHyperSet of the SuperHyperForcing.*

$$\{V_1, V_2\}$$
$$\{V_1, V_3\}$$
$$\{V_2, V_3\}$$

*since the SuperHyperSets of the SuperHyperVertices, $\{V_1, V_2\}, \{V_1, V_3\}, \{V_2, V_3\}$ are the SuperHyperSets Ss of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex **and** they are **SuperHyperForcing**. Since they've **the minimum cardinality** of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only one SuperHyperVertex outside the intended SuperHyperSet, $V \setminus \{v\}$. Thus the obvious SuperHyperForcing, $V \setminus \{v\}$, is up. The obvious simple type-SuperHyperSet of the SuperHyperForcing, $V \setminus \{v\}$, is a SuperHyperSet, $V \setminus \{v\}$, excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$.*

- *On the Figure 4, the SuperHyperNotion, namely, SuperHyperForcing, is up. There's no empty SuperHyperEdge but E_3 are a loop SuperHyperEdge on $\{F\}$, and there are some SuperHyperEdges, namely, E_1 on $\{H, V_1, V_3\}$, alongside E_2 on $\{O, H, V_4, V_3\}$ and E_4, E_5 on $\{N, V_1, V_2, V_3, F\}$. The SuperHyperSet of SuperHyperVertices, $\{V_1, V_3, H, V_4, V_2, F\}$ is the simple type-SuperHyperSet of the SuperHyperForcing. The SuperHyperSet of the SuperHyperVertices, $\{V_1, V_3, H, V_4, V_2, F\}$, is **the minimum cardinality** of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. In There's not only one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$. But the SuperHyperSet of SuperHyperVertices, $\{V_1, V_3, H, V_4, V_2, F\}$, has more*

*than one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious simple type-SuperHyperSet of the SuperHyperForcing is up. To sum them up, the SuperHyperSet of SuperHyperVertices, $\{V_1, V_3, H, V_4, V_2, F\}$, is the non-obvious simple type-SuperHyperSet of the SuperHyperForcing. Since the SuperHyperSet of the SuperHyperVertices, $\{V_1, V_3, H, V_4, V_2, F\}$, is the SuperHyperSet Ss of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex <u>**and**</u> they are <u>**SuperHyperForcing**</u>. Since it's <u>**the minimum cardinality**</u> of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only more than one SuperHyperVertex outside the intended SuperHyperSet, $\{V_1, V_3, H, V_4, V_2, F\}$. Thus the non-obvious SuperHyperForcing, $\{V_1, V_3, H, V_4, V_2, F\}$, is up. The non-obvious simple type-SuperHyperSet of the SuperHyperForcing, $\{V_1, V_3, H, V_4, V_2, F\}$, is a SuperHyperSet, $\{V_1, V_3, H, V_4, V_2, F\}$, excludes only more than one SuperHyperVertex in a connected neutrosophic SuperHyperGraph NSHG : (V, E).*

- *On the Figure 5, the SuperHyperNotion, namely, SuperHyperForcing, is up. There's neither empty SuperHyperEdge nor loop SuperHyperEdge. The SuperHyperSet of SuperHyperVertices, $\{V_2, V_3, V_4, V_5, V_7, V_8, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, is the simple type-SuperHyperSet of the SuperHyperForcing. The SuperHyperSet of the SuperHyperVertices, $\{V_2, V_3, V_4, V_5, V_7, V_8, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, is <u>**the minimum cardinality**</u> of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. In There's not only one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph NSHG : (V, E). But the SuperHyperSet of SuperHyperVertices, $\{V_2, V_3, V_4, V_5, V_7, V_8, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, has more than one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious simple type-SuperHyperSet of the SuperHyperForcing is up. To sum them up, the SuperHyperSet of SuperHyperVertices, $\{V_2, V_3, V_4, V_5, V_7, V_8, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, is the non-obvious simple type-SuperHyperSet of the SuperHyperForcing. Since the SuperHyperSet of the SuperHyperVertices, $\{V_2, V_3, V_4, V_5, V_7, V_8, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, is the SuperHyperSet Ss of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex <u>**and**</u> they are <u>**SuperHyperForcing**</u>. Since it's <u>**the minimum cardinality**</u> of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only more than one SuperHyperVertex outside the intended SuperHyperSet, $\{V_2, V_3, V_4, V_5, V_7, V_8, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$. Thus the non-obvious SuperHyperForcing, $\{V_2, V_3, V_4, V_5, V_7, V_8, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, is up. The non-obvious simple type-SuperHyperSet of the SuperHyperForcing, $\{V_2, V_3, V_4, V_5, V_7, V_8, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, is a SuperHyperSet, $\{V_2, V_3, V_4, V_5, V_7, V_8, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, excludes only more than one SuperHyperVertex in a connected neutrosophic SuperHyperGraph NSHG : (V, E).*

- *On the Figure 6, the SuperHyperNotion, namely, SuperHyperForcing, is up. There's neither empty SuperHyperEdge nor loop SuperHyperEdge. The SuperHyperSet of SuperHyperVertices, $\{V_1, V_3, V_5, V_7, V_9, V_{21}, V_{12}, V_{14}, V_{16}, V_{18}, V_{20}, V_{22}\}$, is the simple type-SuperHyperSet of the SuperHyperForcing. The SuperHyperSet of the SuperHyperVertices, $\{V_1, V_3, V_5, V_7, V_9, V_{21}, V_{12}, V_{14}, V_{16}, V_{18}, V_{20}, V_{22}\}$, is <u>**the minimum cardinality**</u> of a SuperHyperSet*

S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. In There's not only one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$. But the SuperHyperSet of SuperHyperVertices, $\{V_1, V_3, V_5, V_7, V_9, V_{21}, V_{12}, V_{14}, V_{16}, V_{18}, V_{20}, V_{22}\}$, has more than one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious simple type-SuperHyperSet of the SuperHyperForcing is up. To sum them up, the SuperHyperSet of SuperHyperVertices, $\{V_1, V_3, V_5, V_7, V_9, V_{21}, V_{12}, V_{14}, V_{16}, V_{18}, V_{20}, V_{22}\}$, is the non-obvious simple type-SuperHyperSet of the SuperHyperForcing. Since the SuperHyperSet of the SuperHyperVertices, $\{V_1, V_3, V_5, V_7, V_9, V_{21}, V_{12}, V_{14}, V_{16}, V_{18}, V_{20}, V_{22}\}$, is the SuperHyperSet Ss of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex **and** they are **SuperHyperForcing**. Since it's **the minimum cardinality** of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only more than one SuperHyperVertex outside the intended SuperHyperSet, $\{V_1, V_3, V_5, V_7, V_9, V_{21}, V_{12}, V_{14}, V_{16}, V_{18}, V_{20}, V_{22}\}$. Thus the non-obvious SuperHyperForcing, $\{V_1, V_3, V_5, V_7, V_9, V_{21}, V_{12}, V_{14}, V_{16}, V_{18}, V_{20}, V_{22}\}$, is up. The non-obvious simple type-SuperHyperSet of the SuperHyperForcing, $\{V_1, V_3, V_5, V_7, V_9, V_{21}, V_{12}, V_{14}, V_{16}, V_{18}, V_{20}, V_{22}\}$, is a SuperHyperSet, $\{V_1, V_3, V_5, V_7, V_9, V_{21}, V_{12}, V_{14}, V_{16}, V_{18}, V_{20}, V_{22}\}$, excludes only more than one SuperHyperVertex in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$.

- On the Figure 7, the SuperHyperNotion, namely, SuperHyperForcing, is up. There's neither empty SuperHyperEdge nor loop SuperHyperEdge. The SuperHyperSet of SuperHyperVertices, $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, is the simple type-SuperHyperSet of the SuperHyperForcing. The SuperHyperSet of the SuperHyperVertices, $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, is **the minimum cardinality** of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. In There's not only one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$. But the SuperHyperSet of SuperHyperVertices, $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, has more than one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious simple type-SuperHyperSet of the SuperHyperForcing is up. To sum them up, the SuperHyperSet of SuperHyperVertices, $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, is the non-obvious simple type-SuperHyperSet of the SuperHyperForcing. Since the SuperHyperSet of the SuperHyperVertices, $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, is the SuperHyperSet Ss of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex **and** they are **SuperHyperForcing**. Since it's **the minimum cardinality** of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white

SuperHyperNeighbor of a black SuperHyperVertex. There's only more than one SuperHyperVertex outside the intended SuperHyperSet, $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$. Thus the non-obvious SuperHyperForcing, $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, is up. The non-obvious simple type-SuperHyperSet of the SuperHyperForcing, $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, is a SuperHyperSet, $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, excludes only more than one SuperHyperVertex in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$.

- *On the Figure 8, the SuperHyperNotion, namely, SuperHyperForcing, is up. There's neither empty SuperHyperEdge nor loop SuperHyperEdge. The SuperHyperSet of SuperHyperVertices, $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, is the simple type-SuperHyperSet of the SuperHyperForcing. The SuperHyperSet of the SuperHyperVertices, $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, is __the minimum cardinality__ of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. In There's not only one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$. But the SuperHyperSet of SuperHyperVertices, $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, has more than one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious simple type-SuperHyperSet of the SuperHyperForcing is up. To sum them up, the SuperHyperSet of SuperHyperVertices, $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, is the non-obvious simple type-SuperHyperSet of the SuperHyperForcing. Since the SuperHyperSet of the SuperHyperVertices, $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, is the SuperHyperSet Ss of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex __and__ they are __SuperHyperForcing__. Since it'__s__ __the minimum cardinality__ of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only more than one SuperHyperVertex outside the intended SuperHyperSet, $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$. Thus the non-obvious SuperHyperForcing, $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, is up. The non-obvious simple type-SuperHyperSet of the SuperHyperForcing, $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, is a SuperHyperSet, $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, excludes only more than one SuperHyperVertex in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$.*

- *On the Figure 9, the SuperHyperNotion, namely, SuperHyperForcing, is up. There's neither empty SuperHyperEdge nor loop SuperHyperEdge. The SuperHyperSet of SuperHyperVertices, $\{V_1, V_3, V_5, V_7, V_9, V_{21}, V_{12}, V_{14}, V_{16}, V_{18}, V_{20}, V_{22}\}$, is the simple type-SuperHyperSet of the SuperHyperForcing. The SuperHyperSet of the SuperHyperVertices, $\{V_1, V_3, V_5, V_7, V_9, V_{21}, V_{12}, V_{14}, V_{16}, V_{18}, V_{20}, V_{22}\}$, is __the minimum cardinality__ of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. In There's not only one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$. But the SuperHyperSet of SuperHyperVertices, $\{V_1, V_3, V_5, V_7, V_9, V_{21}, V_{12}, V_{14}, V_{16}, V_{18}, V_{20}, V_{22}\}$, has more than one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious simple type-SuperHyperSet of the SuperHyperForcing is up. To sum them up, the SuperHyperSet*

of SuperHyperVertices, $\{V_1, V_3, V_5, V_7, V_9, V_{21}, V_{12}, V_{14}, V_{16}, V_{18}, V_{20}, V_{22}\}$, *is the non-obvious simple type-SuperHyperSet of the SuperHyperForcing. Since the SuperHyperSet of the SuperHyperVertices,* $\{V_1, V_3, V_5, V_7, V_9, V_{21}, V_{12}, V_{14}, V_{16}, V_{18}, V_{20}, V_{22}\}$, *is the SuperHyperSet Ss of black SuperHyperVertices (whereas SuperHyperVertices in* $V(G) \setminus S$ *are colored white) such that* $V(G)$ *is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex <u>and</u> they are <u>**SuperHyperForcing**</u>. Since it's <u>**the minimum cardinality**</u> of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in* $V(G) \setminus S$ *are colored white) such that* $V(G)$ *is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only more than one SuperHyperVertex outside the intended SuperHyperSet,* $\{V_1, V_3, V_5, V_7, V_9, V_{21}, V_{12}, V_{14}, V_{16}, V_{18}, V_{20}, V_{22}\}$. *Thus the non-obvious SuperHyperForcing,* $\{V_1, V_3, V_5, V_7, V_9, V_{21}, V_{12}, V_{14}, V_{16}, V_{18}, V_{20}, V_{22}\}$, *is up. The non-obvious simple type-SuperHyperSet of the SuperHyperForcing,* $\{V_1, V_3, V_5, V_7, V_9, V_{21}, V_{12}, V_{14}, V_{16}, V_{18}, V_{20}, V_{22}\}$, *is a SuperHyperSet,* $\{V_1, V_3, V_5, V_7, V_9, V_{21}, V_{12}, V_{14}, V_{16}, V_{18}, V_{20}, V_{22}\}$, *excludes only more than one SuperHyperVertex in a connected neutrosophic SuperHyperGraph NSHG :* (V, E).

- *On the Figure 10, the SuperHyperNotion, namely, SuperHyperForcing, is up. There's neither empty SuperHyperEdge nor loop SuperHyperEdge. The SuperHyperSet of SuperHyperVertices,* $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, *is the simple type-SuperHyperSet of the SuperHyperForcing. The SuperHyperSet of the SuperHyperVertices,* $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, *is <u>**the minimum cardinality**</u> of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in* $V(G) \setminus S$ *are colored white) such that* $V(G)$ *is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. In There's not only one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph NSHG :* (V, E). *But the SuperHyperSet of SuperHyperVertices,* $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, *has more than one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious simple type-SuperHyperSet of the SuperHyperForcing is up. To sum them up, the SuperHyperSet of SuperHyperVertices,* $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, *is the non-obvious simple type-SuperHyperSet of the SuperHyperForcing. Since the SuperHyperSet of the SuperHyperVertices,* $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, *is the SuperHyperSet Ss of black SuperHyperVertices (whereas SuperHyperVertices in* $V(G) \setminus S$ *are colored white) such that* $V(G)$ *is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex <u>and</u> they are <u>**SuperHyperForcing**</u>. Since it's <u>**the minimum cardinality**</u> of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in* $V(G) \setminus S$ *are colored white) such that* $V(G)$ *is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only more than one SuperHyperVertex outside the intended SuperHyperSet,* $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$. *Thus the non-obvious SuperHyperForcing,* $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, *is up. The non-obvious simple type-SuperHyperSet of the SuperHyperForcing,* $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, *is a SuperHyperSet,* $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, *excludes only more than one SuperHyperVertex in a connected neutrosophic SuperHyperGraph NSHG :* (V, E).

- *On the Figure 11, the SuperHyperNotion, namely, SuperHyperForcing, is up. There's neither empty SuperHyperEdge nor loop SuperHyperEdge. The SuperHyperSet of SuperHyperVertices,* $\{V_2, V_3, V_5, V_6\}$, *is the simple type-SuperHyperSet of the SuperHyperForcing. The SuperHyperSet of the SuperHyperVertices,* $\{V_2, V_3, V_5, V_6\}$, *is <u>**the minimum cardinality**</u> of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in* $V(G) \setminus S$ *are colored white) such*

*that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. In There's not only one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph NSHG : (V, E). But the SuperHyperSet of SuperHyperVertices, $\{V_2, V_3, V_5, V_6\}$, has more than one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious simple type-SuperHyperSet of the SuperHyperForcing is up. To sum them up, the SuperHyperSet of SuperHyperVertices, $\{V_2, V_3, V_5, V_6\}$, is the non-obvious simple type-SuperHyperSet of the SuperHyperForcing. Since the SuperHyperSet of the SuperHyperVertices, $\{V_2, V_3, V_5, V_6\}$, is the SuperHyperSet Ss of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex **<u>and</u>** they are <u>**SuperHyperForcing**</u>. Since it's <u>**s the minimum cardinality**</u> of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only more than one SuperHyperVertex outside the intended SuperHyperSet, $\{V_2, V_3, V_5, V_6\}$. Thus the non-obvious SuperHyperForcing, $\{V_2, V_3, V_5, V_6\}$, is up. The non-obvious simple type-SuperHyperSet of the SuperHyperForcing, $\{V_2, V_3, V_5, V_6\}$, is a SuperHyperSet, $\{V_2, V_3, V_5, V_6\}$, excludes only more than one SuperHyperVertex in a connected neutrosophic SuperHyperGraph NSHG : (V, E).*

- *On the Figure 12, the SuperHyperNotion, namely, SuperHyperForcing, is up. There's neither empty SuperHyperEdge nor loop SuperHyperEdge. The SuperHyperSet of SuperHyperVertices, $\{V_1, V_2, V_3, V_4, V_5, V_6, V_7, V_9\}$, is the simple type-SuperHyperSet of the SuperHyperForcing. The SuperHyperSet of the SuperHyperVertices, $\{V_1, V_2, V_3, V_4, V_5, V_6, V_7, V_9\}$, is <u>**the minimum cardinality**</u> of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. In There's not only one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph NSHG : (V, E). But the SuperHyperSet of SuperHyperVertices, $\{V_1, V_2, V_3, V_4, V_5, V_6, V_7, V_9\}$, has more than one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious simple type-SuperHyperSet of the SuperHyperForcing is up. To sum them up, the SuperHyperSet of SuperHyperVertices, $\{V_1, V_2, V_3, V_4, V_5, V_6, V_7, V_9\}$, is the non-obvious simple type-SuperHyperSet of the SuperHyperForcing. Since the SuperHyperSet of the SuperHyperVertices, $\{V_1, V_2, V_3, V_4, V_5, V_6, V_7, V_9\}$, is the SuperHyperSet Ss of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex **<u>and</u>** they are <u>**SuperHyperForcing**</u>. Since it's <u>**s the minimum cardinality**</u> of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only more than one SuperHyperVertex outside the intended SuperHyperSet, $\{V_1, V_2, V_3, V_4, V_5, V_6, V_7, V_9\}$. Thus the non-obvious SuperHyperForcing, $\{V_1, V_2, V_3, V_4, V_5, V_6, V_7, V_9\}$, is up. The non-obvious simple type-SuperHyperSet of the SuperHyperForcing, $\{V_1, V_2, V_3, V_4, V_5, V_6, V_7, V_9\}$, is a SuperHyperSet,*

$\{V_1, V_2, V_3, V_4, V_5, V_6, V_7, V_9\}$, *excludes only more than one SuperHyperVertex in a connected neutrosophic SuperHyperGraph NSHG : (V, E).*

- *On the Figure 13, the SuperHyperNotion, namely, SuperHyperForcing, is up. There's neither empty SuperHyperEdge nor loop SuperHyperEdge. The SuperHyperSet of SuperHyperVertices, $\{V_1, V_2, V_5, V_6\}$, is the simple type-SuperHyperSet of the SuperHyperForcing. The SuperHyperSet of the SuperHyperVertices, $\{V_1, V_2, V_5, V_6\}$, is __the minimum cardinality__ of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. In There's not only one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph NSHG : (V, E). But the SuperHyperSet of SuperHyperVertices, $\{V_1, V_2, V_5, V_6\}$, has more than one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious simple type-SuperHyperSet of the SuperHyperForcing is up. To sum them up, the SuperHyperSet of SuperHyperVertices, $\{V_1, V_2, V_5, V_6\}$, is the non-obvious simple type-SuperHyperSet of the SuperHyperForcing. Since the SuperHyperSet of the SuperHyperVertices, $\{V_1, V_2, V_5, V_6\}$, is the SuperHyperSet Ss of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex __and__ they are __SuperHyperForcing__. Since it's __the minimum cardinality__ of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only more than one SuperHyperVertex outside the intended SuperHyperSet, $\{V_1, V_2, V_5, V_6\}$. Thus the non-obvious SuperHyperForcing, $\{V_1, V_2, V_5, V_6\}$, is up. The non-obvious simple type-SuperHyperSet of the SuperHyperForcing, $\{V_1, V_2, V_5, V_6\}$, is a SuperHyperSet, $\{V_1, V_2, V_5, V_6\}$, excludes only more than one SuperHyperVertex in a connected neutrosophic SuperHyperGraph NSHG : (V, E).*

- *On the Figure 14, the SuperHyperNotion, namely, SuperHyperForcing, is up. There's neither empty SuperHyperEdge nor loop SuperHyperEdge. The SuperHyperSet of SuperHyperVertices, $\{V_1\}$, is the simple type-SuperHyperSet of the SuperHyperForcing. The SuperHyperSet of the SuperHyperVertices, $\{V_1\}$, is __the minimum cardinality__ of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. In There's not only one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph NSHG : (V, E). But the SuperHyperSet of SuperHyperVertices, $\{V_1\}$, has more than one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious simple type-SuperHyperSet of the SuperHyperForcing is up. To sum them up, the SuperHyperSet of SuperHyperVertices, $\{V_1\}$, is the non-obvious simple type-SuperHyperSet of the SuperHyperForcing. Since the SuperHyperSet of the SuperHyperVertices, $\{V_1\}$, is the SuperHyperSet Ss of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex __and__ they are __SuperHyperForcing__. Since it's __the minimum cardinality__ of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a*

black SuperHyperVertex. There's only more than one SuperHyperVertex outside the intended SuperHyperSet, $\{V_1\}$. Thus the non-obvious SuperHyperForcing, $\{V_1\}$, is up. The non-obvious simple type-SuperHyperSet of the SuperHyperForcing, $\{V_1\}$, is a SuperHyperSet, $\{V_1\}$, excludes only more than one SuperHyperVertex in a connected neutrosophic SuperHyperGraph NSHG : (V,E).

- *On the Figure 15, the SuperHyperNotion, namely, SuperHyperForcing, is up. There's neither empty SuperHyperEdge nor loop SuperHyperEdge. The SuperHyperSet of SuperHyperVertices, $\{V_1,V_3,V_6\}$, is the simple type-SuperHyperSet of the SuperHyperForcing. The SuperHyperSet of the SuperHyperVertices, $\{V_1,V_3,V_6\}$, is **the minimum cardinality** of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. In There's not only one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph NSHG : (V,E). But the SuperHyperSet of SuperHyperVertices, $\{V_1,V_3,V_6\}$, has more than one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious simple type-SuperHyperSet of the SuperHyperForcing is up. To sum them up, the SuperHyperSet of SuperHyperVertices, $\{V_1,V_3,V_6\}$, is the non-obvious simple type-SuperHyperSet of the SuperHyperForcing. Since the SuperHyperSet of the SuperHyperVertices, $\{V_1,V_3,V_6\}$, is the SuperHyperSet Ss of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex **and** they are **SuperHyperForcing**. Since it'**s** **the minimum cardinality** of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only more than one SuperHyperVertex outside the intended SuperHyperSet, $\{V_1,V_3,V_6\}$. Thus the non-obvious SuperHyperForcing, $\{V_1,V_3,V_6\}$, is up. The non-obvious simple type-SuperHyperSet of the SuperHyperForcing, $\{V_1,V_3,V_6\}$, is a SuperHyperSet, $\{V_1,V_3,V_6\}$, excludes only more than one SuperHyperVertex in a connected neutrosophic SuperHyperGraph NSHG : (V,E).*

- *On the Figure 16, the SuperHyperNotion, namely, SuperHyperForcing, is up. There's neither empty SuperHyperEdge nor loop SuperHyperEdge. The SuperHyperSet of SuperHyperVertices,*

$$\{V_2,V_3,V_4,V_6,V_8,V_9,V_{10},V_{12},V_{15},V_{14},V_{13},V_{17},V_{16},V_{19},V_{18},V_{21},V_{20}\},$$

is the simple type-SuperHyperSet of the SuperHyperForcing. The SuperHyperSet of the SuperHyperVertices,

$$\{V_2,V_3,V_4,V_6,V_8,V_9,V_{10},V_{12},V_{15},V_{14},V_{13},V_{17},V_{16},V_{19},V_{18},V_{21},V_{20}\},$$

*is **the minimum cardinality** of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. In There's not only one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph NSHG : (V,E). But the SuperHyperSet of SuperHyperVertices,*

$$\{V_2,V_3,V_4,V_6,V_8,V_9,V_{10},V_{12},V_{15},V_{14},V_{13},V_{17},V_{16},V_{19},V_{18},V_{21},V_{20}\},$$

has more than one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious simple type-SuperHyperSet of the SuperHyperForcing is up. To sum them up, the SuperHyperSet of SuperHyperVertices,

$$\{V_2, V_3, V_4, V_6, V_8, V_9, V_{10}, V_{12}, V_{15}, V_{14}, V_{13}, V_{17}, V_{16}, V_{19}, V_{18}, V_{21}, V_{20}\},$$

is the non-obvious simple type-SuperHyperSet of the SuperHyperForcing. Since the SuperHyperSet of the SuperHyperVertices,

$$\{V_2, V_3, V_4, V_6, V_8, V_9, V_{10}, V_{12}, V_{15}, V_{14}, V_{13}, V_{17}, V_{16}, V_{19}, V_{18}, V_{21}, V_{20}\},$$

*is the SuperHyperSet Ss of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex <u>**and**</u> they are <u>**SuperHyperForcing**</u>. Since it's <u>**s the minimum cardinality**</u> of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only more than one SuperHyperVertex outside the intended SuperHyperSet,*

$$\{V_2, V_3, V_4, V_6, V_8, V_9, V_{10}, V_{12}, V_{15}, V_{14}, V_{13}, V_{17}, V_{16}, V_{19}, V_{18}, V_{21}, V_{20}\}.$$

Thus the non-obvious SuperHyperForcing,

$$\{V_2, V_3, V_4, V_6, V_8, V_9, V_{10}, V_{12}, V_{15}, V_{14}, V_{13}, V_{17}, V_{16}, V_{19}, V_{18}, V_{21}, V_{20}\},$$

is up. The non-obvious simple type-SuperHyperSet of the SuperHyperForcing,

$$\{V_2, V_3, V_4, V_6, V_8, V_9, V_{10}, V_{12}, V_{15}, V_{14}, V_{13}, V_{17}, V_{16}, V_{19}, V_{18}, V_{21}, V_{20}\},$$

is a SuperHyperSet,

$$\{V_2, V_3, V_4, V_6, V_8, V_9, V_{10}, V_{12}, V_{15}, V_{14}, V_{13}, V_{17}, V_{16}, V_{19}, V_{18}, V_{21}, V_{20}\},$$

excludes only more than one SuperHyperVertex in a connected neutrosophic SuperHyperGraph NSHG : (V, E).

- *On the Figure 17, the SuperHyperNotion, namely, SuperHyperForcing, is up. There's neither empty SuperHyperEdge nor loop SuperHyperEdge. The SuperHyperSet of SuperHyperVertices,*

$$\{V_2, V_3, V_4, V_6, V_8, V_9, V_{10}, V_{12}, V_{15}, V_{14}, V_{13}, V_{17}, V_{16}, V_{19}, V_{18}, V_{21}, V_{23}, V_1,$$
$$V_{24}, V_{29}, V_{25}, V_{28}, V_{26}\},$$

is the simple type-SuperHyperSet of the SuperHyperForcing.   The SuperHyperSet of the SuperHyperVertices,

$$\{V_2, V_3, V_4, V_6, V_8, V_9, V_{10}, V_{12}, V_{15}, V_{14}, V_{13}, V_{17}, V_{16}, V_{19}, V_{18}, V_{21}, V_{23}, V_1,$$
$$V_{24}, V_{29}, V_{25}, V_{28}, V_{26}\},$$

*is <u>**the minimum cardinality**</u> of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. In*

There's not only one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph NSHG : (V, E). But the SuperHyperSet of SuperHyperVertices,

$$\{V_2, V_3, V_4, V_6, V_8, V_9, V_{10}, V_{12}, V_{15}, V_{14}, V_{13}, V_{17}, V_{16}, V_{19}, V_{18}, V_{21}, V_{23}, V_1,$$
$$V_{24}, V_{29}, V_{25}, V_{28}, V_{26}\},$$

has more than one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious simple type-SuperHyperSet of the SuperHyperForcing is up. To sum them up, the SuperHyperSet of SuperHyperVertices,

$$\{V_2, V_3, V_4, V_6, V_8, V_9, V_{10}, V_{12}, V_{15}, V_{14}, V_{13}, V_{17}, V_{16}, V_{19}, V_{18}, V_{21}, V_{23}, V_1,$$
$$V_{24}, V_{29}, V_{25}, V_{28}, V_{26}\},$$

is the non-obvious simple type-SuperHyperSet of the SuperHyperForcing. Since the SuperHyperSet of the SuperHyperVertices,

$$\{V_2, V_3, V_4, V_6, V_8, V_9, V_{10}, V_{12}, V_{15}, V_{14}, V_{13}, V_{17}, V_{16}, V_{19}, V_{18}, V_{21}, V_{23}, V_1,$$
$$V_{24}, V_{29}, V_{25}, V_{28}, V_{26}\},$$

is the SuperHyperSet Ss of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex __and__ they are __SuperHyperForcing__. Since it's __the minimum cardinality__ of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only more than one SuperHyperVertex outside the intended SuperHyperSet,

$$\{V_2, V_3, V_4, V_6, V_8, V_9, V_{10}, V_{12}, V_{15}, V_{14}, V_{13}, V_{17}, V_{16}, V_{19}, V_{18}, V_{21}, V_{23}, V_1,$$
$$V_{24}, V_{29}, V_{25}, V_{28}, V_{26}\}.$$

Thus the non-obvious SuperHyperForcing,

$$\{V_2, V_3, V_4, V_6, V_8, V_9, V_{10}, V_{12}, V_{15}, V_{14}, V_{13}, V_{17}, V_{16}, V_{19}, V_{18}, V_{21}, V_{23}, V_1,$$
$$V_{24}, V_{29}, V_{25}, V_{28}, V_{26}\},$$

is up. The non-obvious simple type-SuperHyperSet of the SuperHyperForcing,

$$\{V_2, V_3, V_4, V_6, V_8, V_9, V_{10}, V_{12}, V_{15}, V_{14}, V_{13}, V_{17}, V_{16}, V_{19}, V_{18}, V_{21}, V_{23}, V_1,$$
$$V_{24}, V_{29}, V_{25}, V_{28}, V_{26}\},$$

is a SuperHyperSet,

$$\{V_2, V_3, V_4, V_6, V_8, V_9, V_{10}, V_{12}, V_{15}, V_{14}, V_{13}, V_{17}, V_{16}, V_{19}, V_{18}, V_{21}, V_{23}, V_1,$$
$$V_{24}, V_{29}, V_{25}, V_{28}, V_{26}\},$$

excludes only more than one SuperHyperVertex in a connected neutrosophic SuperHyperGraph NSHG : (V, E).

- *On the Figure 18, the SuperHyperNotion, namely, SuperHyperForcing, is up. There's neither empty SuperHyperEdge nor loop SuperHyperEdge. The SuperHyperSet of SuperHyperVertices, $\{V_1, V_3, R, M_6, L_6, F, P, J, M\}$, is the simple type-SuperHyperSet of the SuperHyperForcing. The SuperHyperSet of the SuperHyperVertices, $\{V_1, V_3, R, M_6, L_6, F, P, J, M\}$, is **the minimum cardinality** of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. In There's not only one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph NSHG : (V, E). But the SuperHyperSet of SuperHyperVertices, $\{V_1, V_3, R, M_6, L_6, F, P, J, M\}$, has more than one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious simple type-SuperHyperSet of the SuperHyperForcing is up. To sum them up, the SuperHyperSet of SuperHyperVertices, $\{V_1, V_3, R, M_6, L_6, F, P, J, M\}$, is the non-obvious simple type-SuperHyperSet of the SuperHyperForcing. Since the SuperHyperSet of the SuperHyperVertices, $\{V_1, V_3, R, M_6, L_6, F, P, J, M\}$, is the SuperHyperSet Ss of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex **and** they are **SuperHyperForcing**. Since it's **the minimum cardinality** of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only more than one SuperHyperVertex outside the intended SuperHyperSet, $\{V_1, V_3, R, M_6, L_6, F, P, J, M\}$. Thus the non-obvious SuperHyperForcing, $\{V_1, V_3, R, M_6, L_6, F, P, J, M\}$, is up. The non-obvious simple type-SuperHyperSet of the SuperHyperForcing, $\{V_1, V_3, R, M_6, L_6, F, P, J, M\}$, is a SuperHyperSet, $\{V_1, V_3, R, M_6, L_6, F, P, J, M\}$, excludes only more than one SuperHyperVertex in a connected neutrosophic SuperHyperGraph NSHG : (V, E).*

- *On the Figure 19, the SuperHyperNotion, namely, SuperHyperForcing, is up. There's neither empty SuperHyperEdge nor loop SuperHyperEdge. The SuperHyperSet of SuperHyperVertices,*

$$\{S_3, U_3, V_4, V_5, V_6, V_7, V_8, V_9, V_{10}, R_6, S_6, Z_5, W_5,$$
$$H_6, O_6, E_6, V_2, V_3, R, M_6, L_6, F, P, J, M\},$$

is the simple type-SuperHyperSet of the SuperHyperForcing. The SuperHyperSet of the SuperHyperVertices,

$$\{S_3, U_3, V_4, V_5, V_6, V_7, V_8, V_9, V_{10}, R_6, S_6, Z_5, W_5,$$
$$H_6, O_6, E_6, V_2, V_3, R, M_6, L_6, F, P, J, M\},$$

*is **the minimum cardinality** of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. In There's not only one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the SuperHyperForcing is a*

SuperHyperSet excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph NSHG : (V, E). But the SuperHyperSet of SuperHyperVertices,

$$\{S_3, U_3, V_4, V_5, V_6, V_7, V_8, V_9, V_{10}, R_6, S_6, Z_5, W_5,$$
$$H_6, O_6, E_6, V_2, V_3, R, M_6, L_6, F, P, J, M\},$$

has more than one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious simple type-SuperHyperSet of the SuperHyperForcing is up. To sum them up, the SuperHyperSet of SuperHyperVertices,

$$\{S_3, U_3, V_4, V_5, V_6, V_7, V_8, V_9, V_{10}, R_6, S_6, Z_5, W_5,$$
$$H_6, O_6, E_6, V_2, V_3, R, M_6, L_6, F, P, J, M\},$$

is the non-obvious simple type-SuperHyperSet of the SuperHyperForcing. Since the SuperHyperSet of the SuperHyperVertices,

$$\{S_3, U_3, V_4, V_5, V_6, V_7, V_8, V_9, V_{10}, R_6, S_6, Z_5, W_5,$$
$$H_6, O_6, E_6, V_2, V_3, R, M_6, L_6, F, P, J, M\},$$

*is the SuperHyperSet Ss of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex **and** they are **SuperHyperForcing**. Since it's **the minimum cardinality** of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only more than one SuperHyperVertex outside the intended SuperHyperSet,*

$$\{S_3, U_3, V_4, V_5, V_6, V_7, V_8, V_9, V_{10}, R_6, S_6, Z_5, W_5,$$
$$H_6, O_6, E_6, V_2, V_3, R, M_6, L_6, F, P, J, M\}.$$

Thus the non-obvious SuperHyperForcing,

$$\{S_3, U_3, V_4, V_5, V_6, V_7, V_8, V_9, V_{10}, R_6, S_6, Z_5, W_5,$$
$$H_6, O_6, E_6, V_2, V_3, R, M_6, L_6, F, P, J, M\},$$

is up. The non-obvious simple type-SuperHyperSet of the SuperHyperForcing,

$$\{S_3, U_3, V_4, V_5, V_6, V_7, V_8, V_9, V_{10}, R_6, S_6, Z_5, W_5,$$
$$H_6, O_6, E_6, V_2, V_3, R, M_6, L_6, F, P, J, M\},$$

is a SuperHyperSet,

$$\{S_3, U_3, V_4, V_5, V_6, V_7, V_8, V_9, V_{10}, R_6, S_6, Z_5, W_5,$$
$$H_6, O_6, E_6, V_2, V_3, R, M_6, L_6, F, P, J, M\},$$

excludes only more than one SuperHyperVertex in a connected neutrosophic SuperHyperGraph NSHG : (V, E).

- *On the Figure* 20, *the SuperHyperNotion, namely, SuperHyperForcing, is up. There's neither empty SuperHyperEdge nor loop SuperHyperEdge. The SuperHyperSet of SuperHyperVertices,*

$$\{V_1, V_{11}, V_4, U_6, H_7, V_5,$$
$$V_7, V_8, V_9, v_8, W_8, U_8, S_8, T_8, C_9,$$
$$K_9, O_9, L_9, O_4, R_4, R_4, S_4\},$$

is the simple type-SuperHyperSet of the SuperHyperForcing. The SuperHyperSet of the SuperHyperVertices,

$$\{V_1, V_{11}, V_4, U_6, H_7, V_5,$$
$$V_7, V_8, V_9, v_8, W_8, U_8, S_8, T_8, C_9,$$
$$K_9, O_9, L_9, O_4, R_4, R_4, S_4\},$$

*is **the minimum cardinality** of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. In There's not only one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$. But the SuperHyperSet of SuperHyperVertices,*

$$\{V_1, V_{11}, V_4, U_6, H_7, V_5,$$
$$V_7, V_8, V_9, v_8, W_8, U_8, S_8, T_8, C_9,$$
$$K_9, O_9, L_9, O_4, R_4, R_4, S_4\},$$

has more than one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious simple type-SuperHyperSet of the SuperHyperForcing is up. To sum them up, the SuperHyperSet of SuperHyperVertices,

$$\{V_1, V_{11}, V_4, U_6, H_7, V_5,$$
$$V_7, V_8, V_9, v_8, W_8, U_8, S_8, T_8, C_9,$$
$$K_9, O_9, L_9, O_4, R_4, R_4, S_4\},$$

is the non-obvious simple type-SuperHyperSet of the SuperHyperForcing. Since the SuperHyperSet of the SuperHyperVertices,

$$\{V_1, V_{11}, V_4, U_6, H_7, V_5,$$
$$V_7, V_8, V_9, v_8, W_8, U_8, S_8, T_8, C_9,$$
$$K_9, O_9, L_9, O_4, R_4, R_4, S_4\},$$

*is the SuperHyperSet Ss of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex **and** they are **SuperHyperForcing**. Since it's **s the minimum cardinality** of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black*

SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only more than one SuperHyperVertex outside the intended SuperHyperSet,

$$\{V_1, V_{11}, V_4, U_6, H_7, V_5,$$
$$V_7, V_8, V_9, v_8, W_8, U_8, S_8, T_8, C_9,$$
$$K_9, O_9, L_9, O_4, R_4, R_4, S_4\}.$$

Thus the non-obvious SuperHyperForcing,

$$\{V_1, V_{11}, V_4, U_6, H_7, V_5,$$
$$V_7, V_8, V_9, v_8, W_8, U_8, S_8, T_8, C_9,$$
$$K_9, O_9, L_9, O_4, R_4, R_4, S_4\},$$

is up. The non-obvious simple type-SuperHyperSet of the SuperHyperForcing,

$$\{V_1, V_{11}, V_4, U_6, H_7, V_5,$$
$$V_7, V_8, V_9, v_8, W_8, U_8, S_8, T_8, C_9,$$
$$K_9, O_9, L_9, O_4, R_4, R_4, S_4\},$$

is a SuperHyperSet,

$$\{V_1, V_{11}, V_4, U_6, H_7, V_5,$$
$$V_7, V_8, V_9, v_8, W_8, U_8, S_8, T_8, C_9,$$
$$K_9, O_9, L_9, O_4, R_4, R_4, S_4\},$$

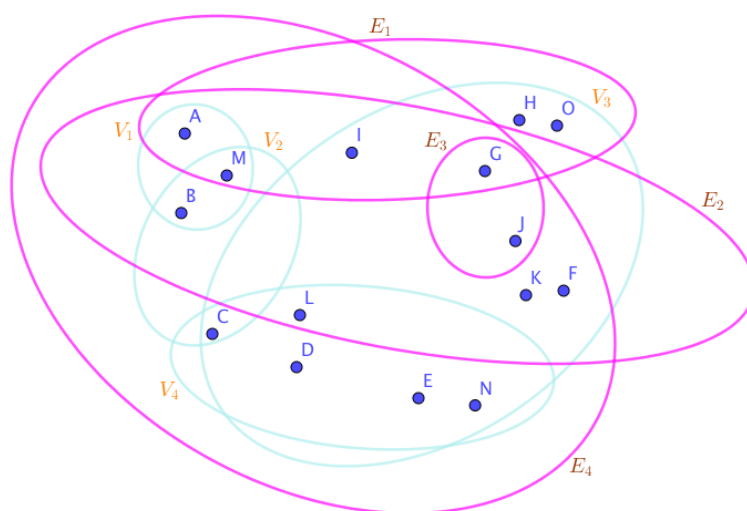*excludes only more than one SuperHyperVertex in a connected neutrosophic SuperHyperGraph NSHG : (V, E).*

Figure 1. The SuperHyperGraphs Associated to the Notions of SuperHyperForcing in the Examples (1) and (2).
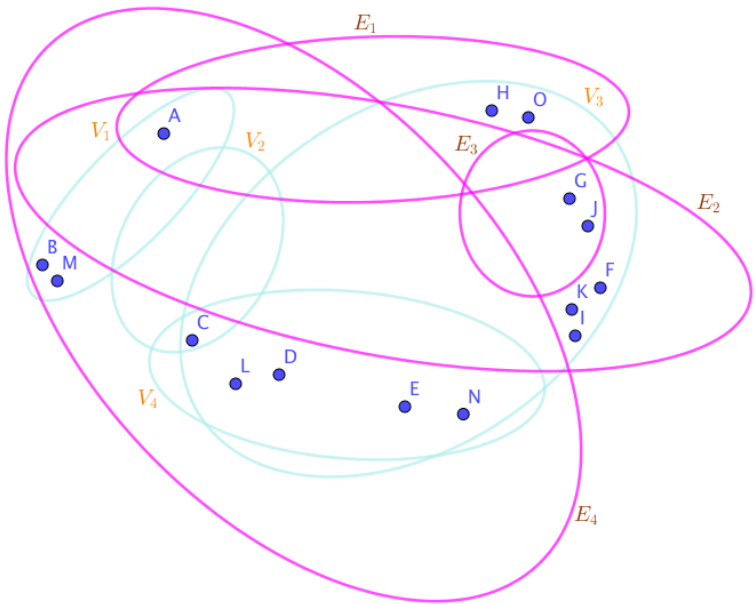
Figure 2. The SuperHyperGraphs Associated to the Notions of SuperHyperForcing in the Examples (1) and (2).

Figure 3. The SuperHyperGraphs Associated to the Notions of SuperHyperForcing in the Examples (1) and (2).

Figure 4. The SuperHyperGraphs Associated to the Notions of SuperHyperForcing in the Examples (1) and (2).

Figure 5. The SuperHyperGraphs Associated to the Notions of SuperHyperForcing in the Examples (1) and (2).

Figure 6. The SuperHyperGraphs Associated to the Notions of SuperHyperForcing in the Examples (1) and (2).
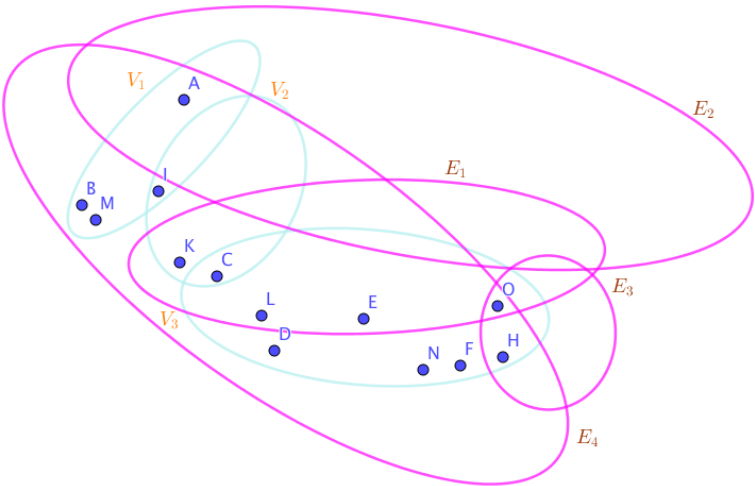

Figure 7. The SuperHyperGraphs Associated to the Notions of SuperHyperForcing in the Examples (1) and (2).

Figure 8. The SuperHyperGraphs Associated to the Notions of SuperHyperForcing in the Examples (1) and (2).
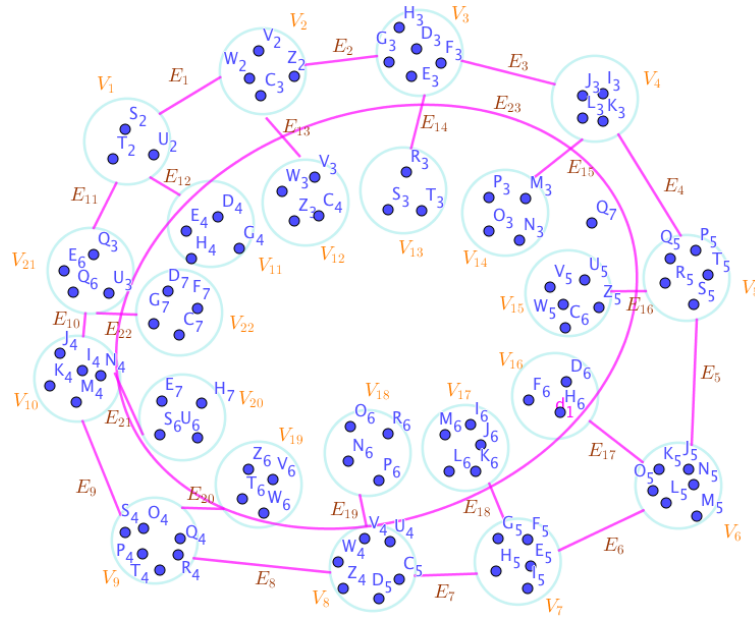
Figure 9. The SuperHyperGraphs Associated to the Notions of SuperHyperForcing in the Examples (1) and (2).
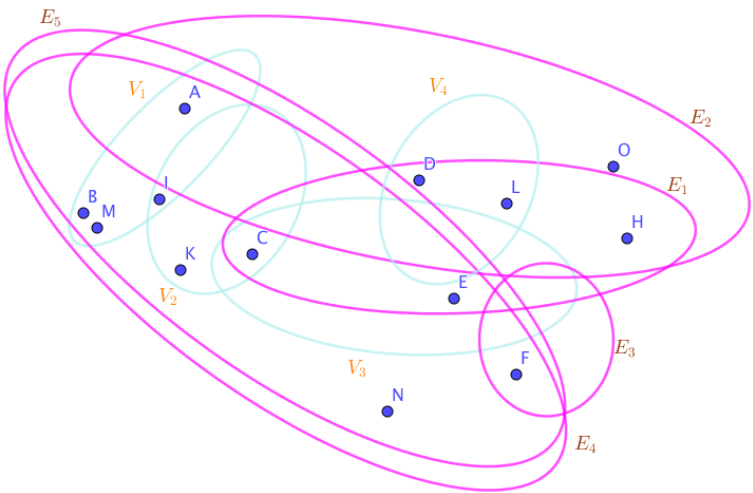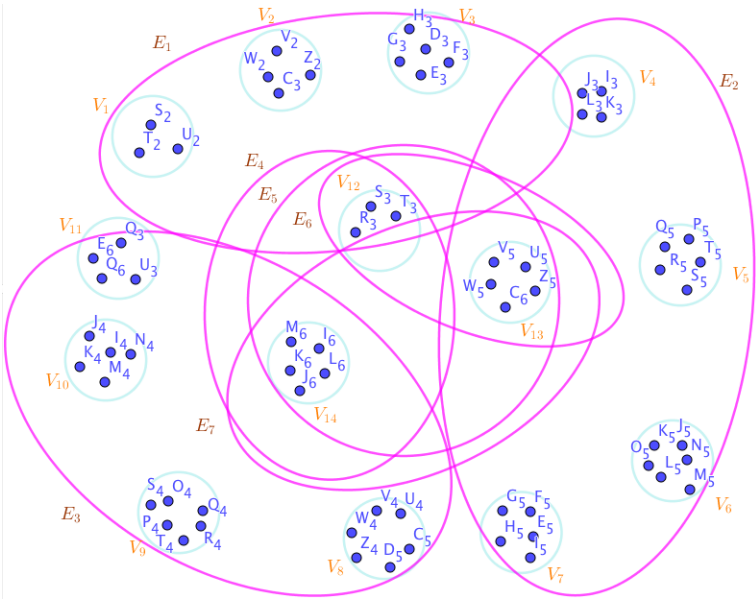
Figure 10. The SuperHyperGraphs Associated to the Notions of SuperHyperForcing in the Examples (1) and (2).
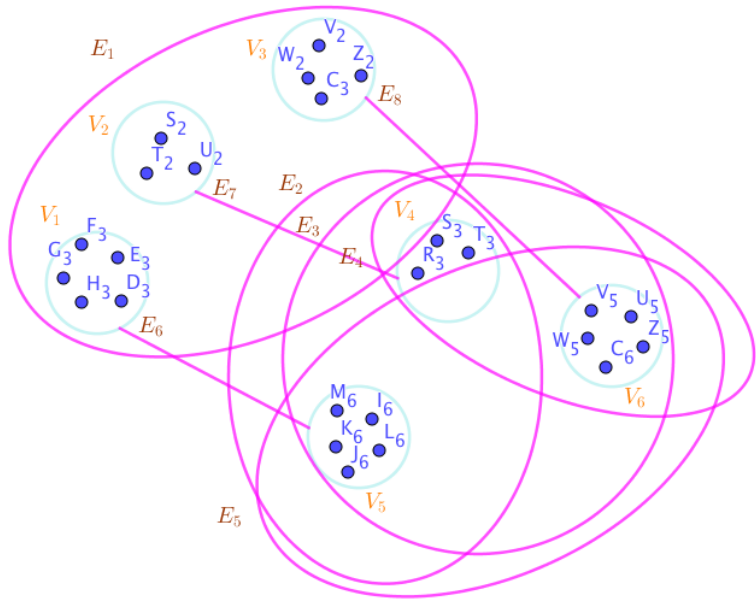
Figure 11. The SuperHyperGraphs Associated to the Notions of SuperHyperForcing in the Examples (1) and (2).
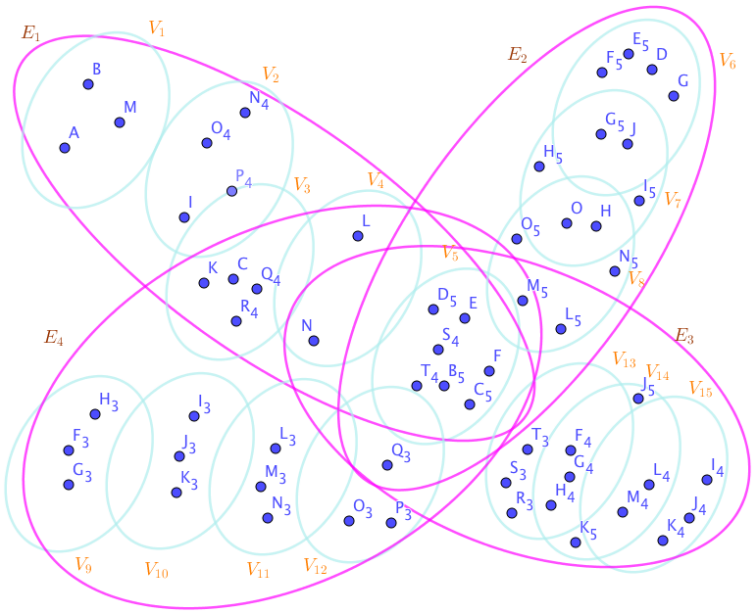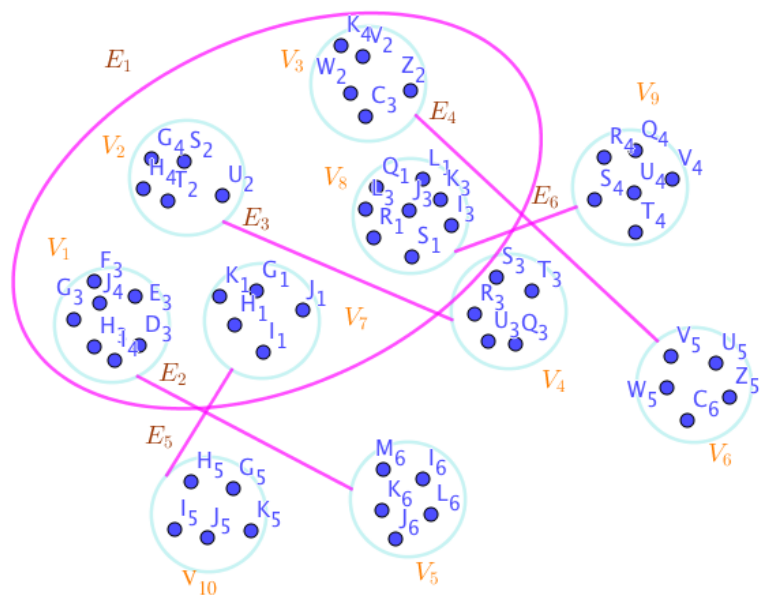
Figure 12. The SuperHyperGraphs Associated to the Notions of SuperHyperForcing in the Examples (1) and (2).
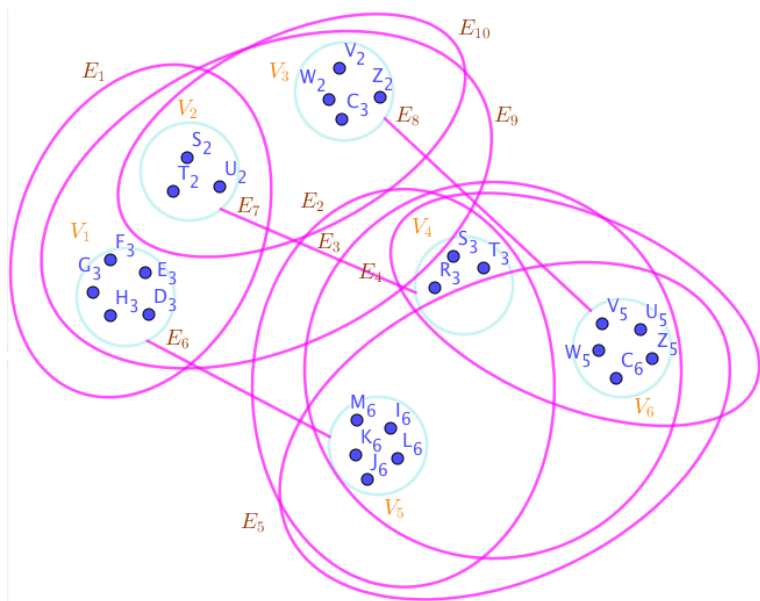
Figure 13. The SuperHyperGraphs Associated to the Notions of SuperHyperForcing in the Examples (1) and (2).
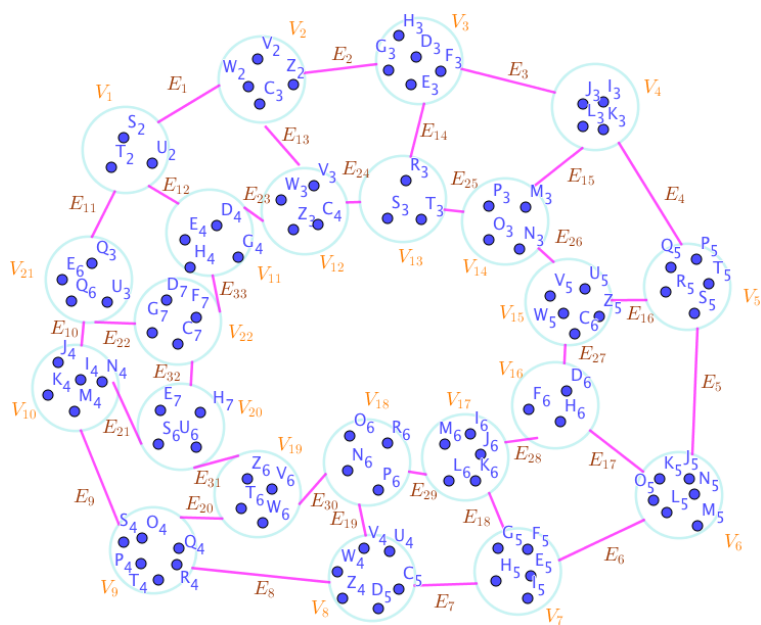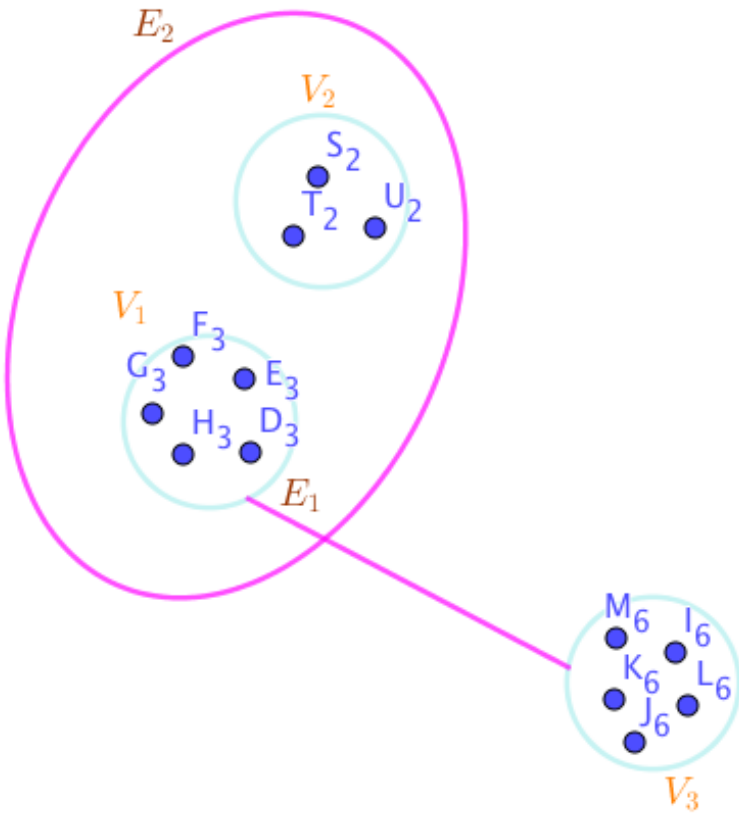
Figure 14. The SuperHyperGraphs Associated to the Notions of SuperHyperForcing in the Examples (1) and (2).
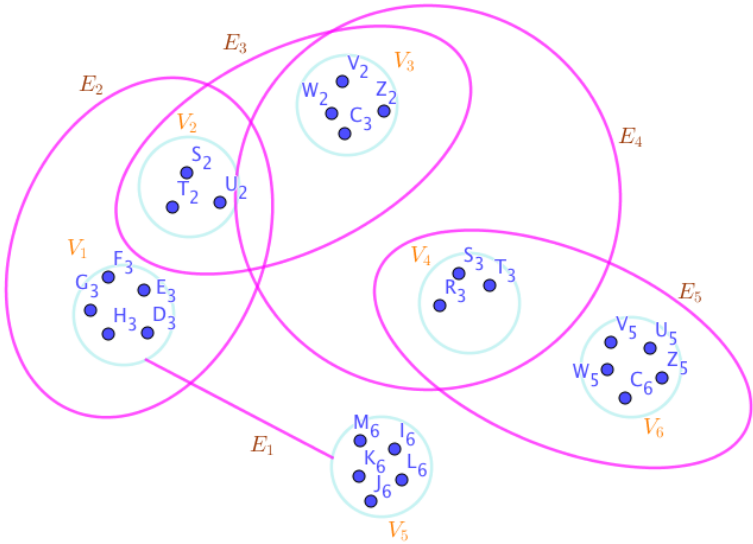
Figure 15. The SuperHyperGraphs Associated to the Notions of SuperHyperForcing in the Examples (1) and (2).

Figure 16. The SuperHyperGraphs Associated to the Notions of SuperHyperForcing in the Examples (1) and (2).
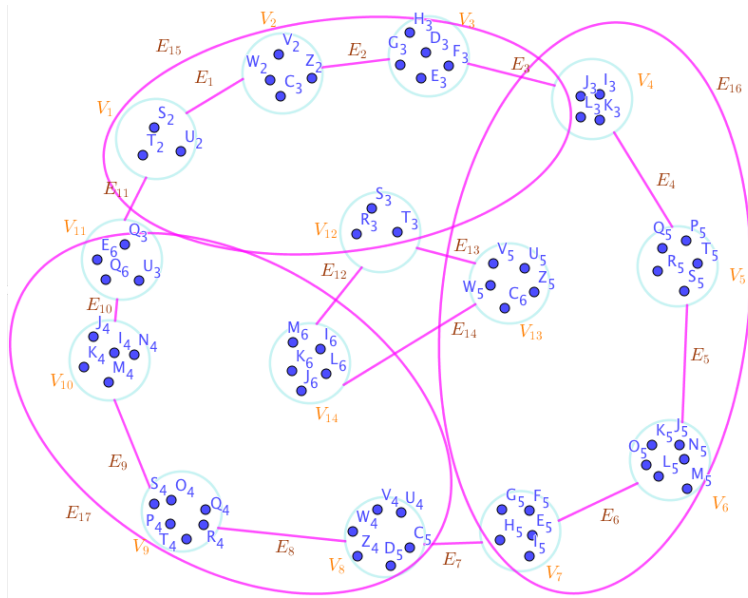

Figure 17. The SuperHyperGraphs Associated to the Notions of SuperHyperForcing in the Examples (1) and (2).
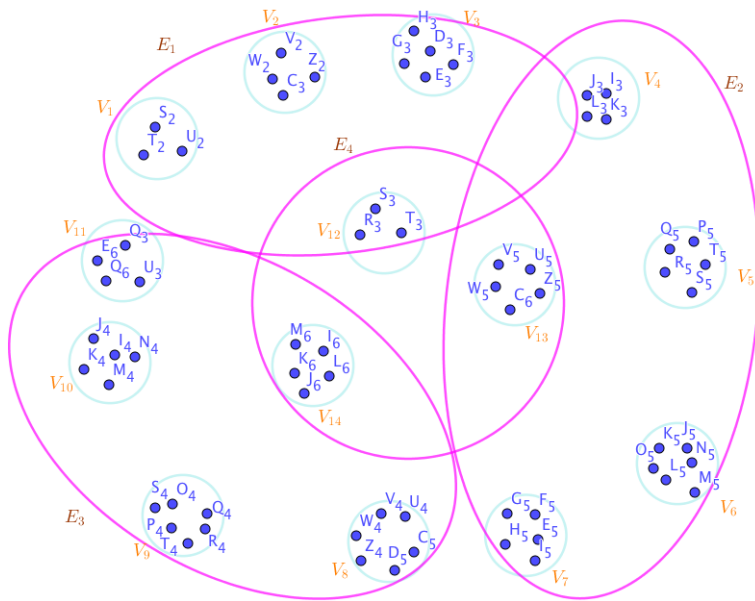
Figure 18. The SuperHyperGraphs Associated to the Notions of SuperHyperForcing in the Examples (1) and (2).

Figure 19. The SuperHyperGraphs Associated to the Notions of SuperHyperForcing in the Examples (1) and (2).
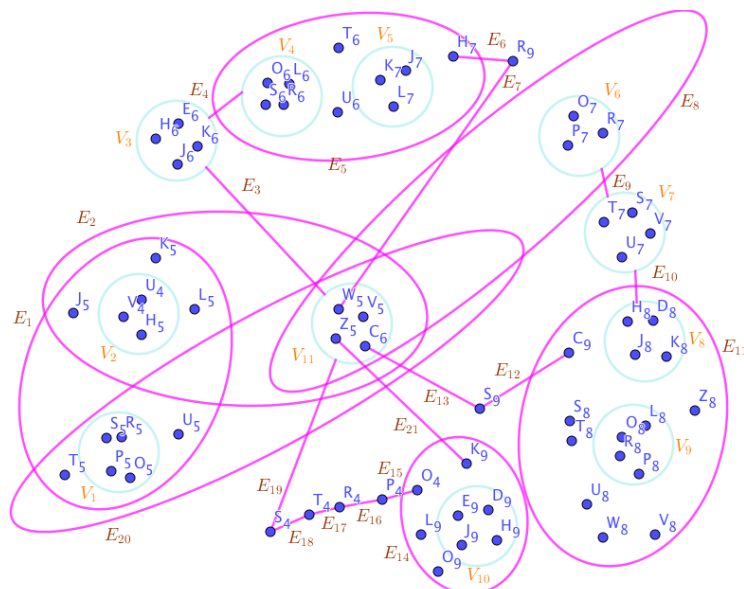
Figure 20. The SuperHyperGraphs Associated to the Notions of SuperHyperForcing in the Examples (1) and (2).
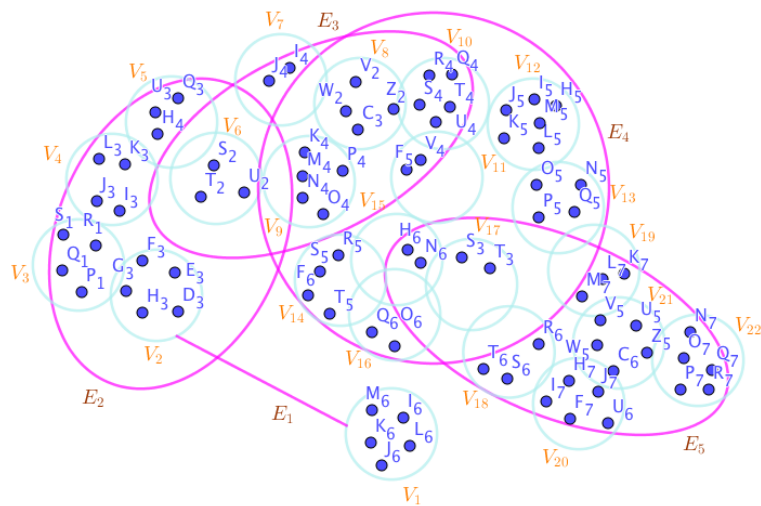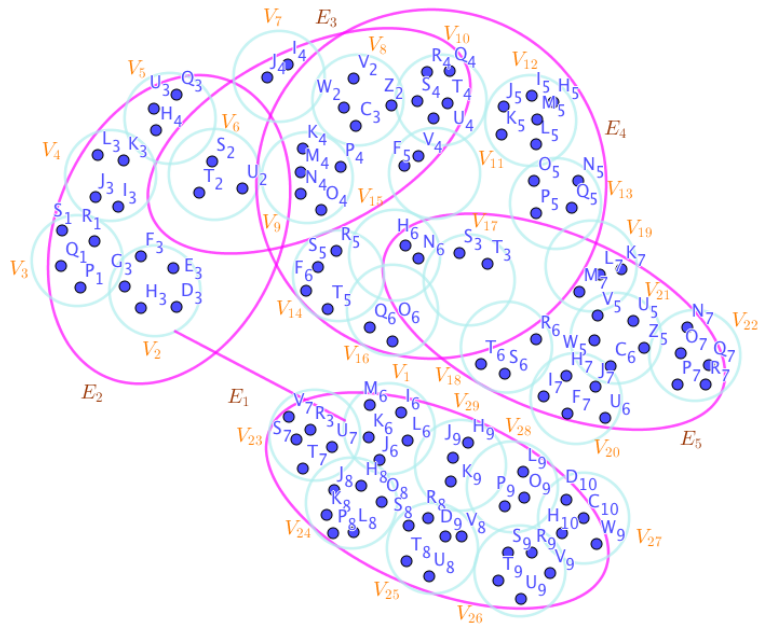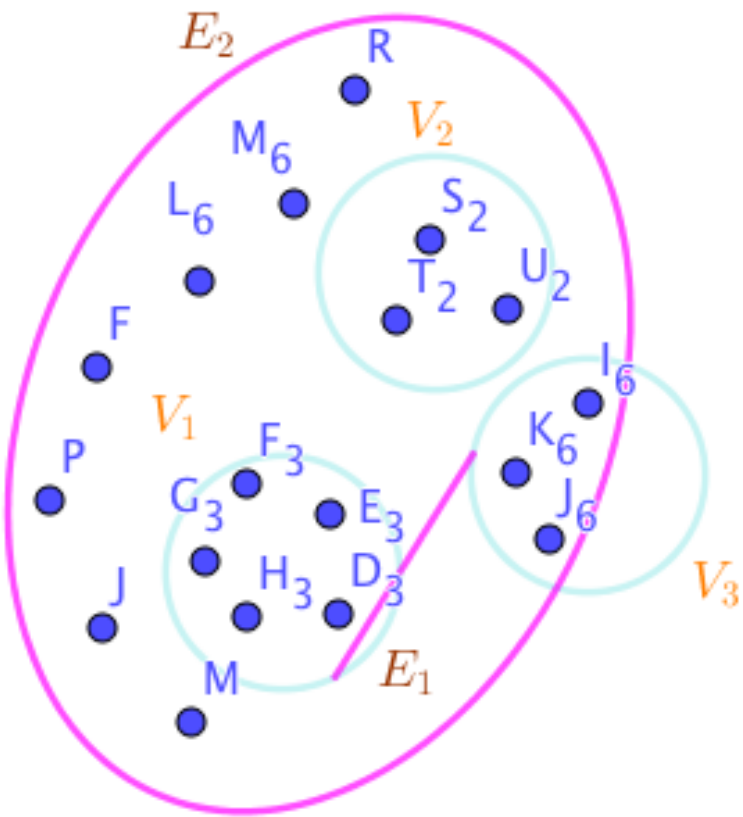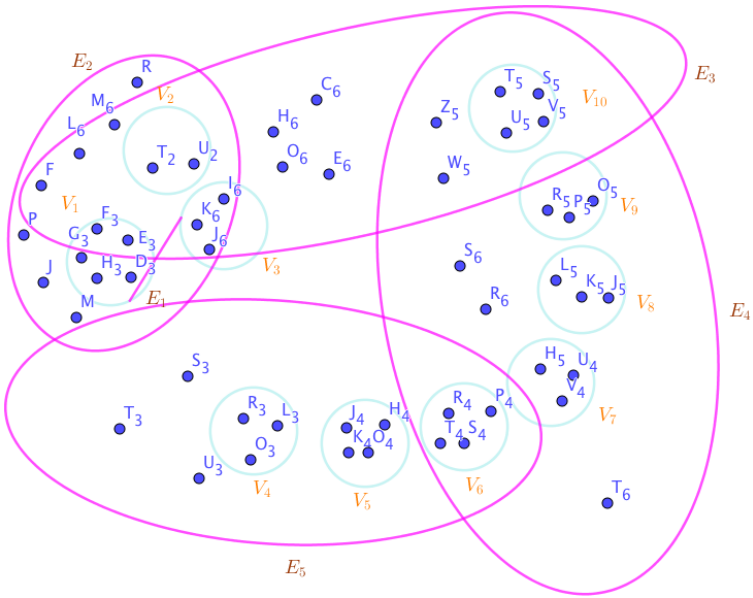
Proposition 1. *Assume a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$. Then in the worst case, literally, $V \setminus \{v\}$ is a SuperHyperForcing. In other words, the most cardinality, the upper sharp bound for cardinality, of SuperHyperForcing is the cardinality of $V \setminus \{v\}$.*

Proof. Assume a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$. The SuperHyperSet of the SuperHyperVertices V is a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex but it isn't a SuperHyperForcing. Since it doesn't have **the minimum cardinality** of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only one SuperHyperVertex outside the intended SuperHyperSet, $V \setminus \{v\}$. Thus the obvious SuperHyperForcing, $V \setminus \{v\}$, is up. The obvious simple type-SuperHyperSet of the SuperHyperForcing, $V \setminus \{v\}$, is a SuperHyperSet, $V \setminus \{v\}$, excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$. □

Proposition 2. *Assume a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$. Then the extreme number of SuperHyperForcing has, the most cardinality, the upper sharp bound for cardinality, is the extreme cardinality of V if there's a SuperHyperForcing with the most cardinality, the upper sharp bound for cardinality.*

Proof. Assume a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$. Consider there's a SuperHyperForcing with the most cardinality, the upper sharp bound for cardinality. The SuperHyperSet of the SuperHyperVertices V is a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex but it isn't a SuperHyperForcing. Since it doesn't have **the minimum cardinality** of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex

is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only one SuperHyperVertex outside the intended SuperHyperSet, $V \setminus \{v\}$. Thus the obvious SuperHyperForcing, $V \setminus \{v\}$, is up. The obvious simple type-SuperHyperSet of the SuperHyperForcing, $V \setminus \{v\}$, is a SuperHyperSet, $V \setminus \{v\}$, excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$. It implies that extreme number of SuperHyperForcing has, the most cardinality, the upper sharp bound for cardinality, is $|V|$ choose $|V| - 1$. Thus it induces that the extreme number of SuperHyperForcing has, the most cardinality, the upper sharp bound for cardinality, is the extreme cardinality of V if there's a SuperHyperForcing with the most cardinality, the upper sharp bound for cardinality.   □

Proposition 3. *Assume a connected neutrosophic SuperHyperGraph NSHG : (V, E). If a SuperHyperEdge has z SuperHyperVertices, then z − 1 number of those SuperHyperVertices from that SuperHyperEdge belong to any SuperHyperForcing.*

Proof. Assume a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$. Let a SuperHyperEdge has z SuperHyperVertices. Consider $z - 2$ number of those SuperHyperVertices from that SuperHyperEdge belong to any given SuperHyperSet of the SuperHyperVertices. The SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex but there are two white SuperHyperNeighbors outside implying there's no SuperHyperVertex to the SuperHyperSet S does the "the color-change rule". So it doesn't have the minimum cardinality of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of **"the color-change rule"**: a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only one SuperHyperVertex outside the intended SuperHyperSet. Thus the obvious SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$. Thus all the following SuperHyperSets of SuperHyperVertices are the simple type-SuperHyperSet of the SuperHyperForcing. It's the contradiction to the SuperHyperSet S is a SuperHyperForcing. Thus any given SuperHyperSet of the SuperHyperVertices contains the number of those SuperHyperVertices from that SuperHyperEdge with z SuperHyperVertices less than $z - 1$ isn't a SuperHyperForcing. Thus if a SuperHyperEdge has z SuperHyperVertices, then $z - 1$ number of those SuperHyperVertices from that SuperHyperEdge belong to any SuperHyperForcing.   □

Proposition 4. *Assume a connected neutrosophic SuperHyperGraph NSHG : (V, E). Every SuperHyperEdge has only one unique SuperHyperVertex outside of SuperHyperForcing. In other words, every SuperHyperEdge has only one unique white SuperHyperVertex.*

Proof. Assume a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$. Let a SuperHyperEdge has some SuperHyperVertices. Consider some numbers of those SuperHyperVertices from that SuperHyperEdge excluding two unique SuperHyperVertices, belong to any given SuperHyperSet of the SuperHyperVertices. The SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex but there are two white SuperHyperNeighbors outside implying there's no SuperHyperVertex to the SuperHyperSet S does the "the color-change rule". So it doesn't have the minimum cardinality of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of **"the color-change rule"**: a white SuperHyperVertex

is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only one SuperHyperVertex outside the intended SuperHyperSet. Thus the obvious SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph $NSHG$: (V, E). Thus all the following SuperHyperSets of SuperHyperVertices are the simple type-SuperHyperSet of the SuperHyperForcing. It's the contradiction to the SuperHyperSet S is a SuperHyperForcing. Thus any given SuperHyperSet of the SuperHyperVertices contains the number of those SuperHyperVertices from that SuperHyperEdge with some SuperHyperVertices less than excluding one unique SuperHyperVertex, isn't a SuperHyperForcing. Thus if a SuperHyperEdge has some SuperHyperVertices, then, with excluding one unique SuperHyperVertex, the all number of those SuperHyperVertices from that SuperHyperEdge belong to any SuperHyperForcing. Thus, in a connected neutrosophic SuperHyperGraph $NSHG$: (V, E), every SuperHyperEdge has only one unique SuperHyperVertex outside of SuperHyperForcing. In other words, every SuperHyperEdge has only one unique white SuperHyperVertex. □

Proposition 5. *Assume a connected neutrosophic SuperHyperGraph NSHG* : (V, E). *The all exterior SuperHyperVertices belong to any SuperHyperForcing if for any of them, there's only one interior SuperHyperVertex is a SuperHyperNeighbor to any of them.*

Proof. Assume a connected neutrosophic SuperHyperGraph $NSHG$: (V, E). Let a SuperHyperEdge has some SuperHyperVertices. Consider some numbers of those SuperHyperVertices from that SuperHyperEdge excluding two unique SuperHyperVertices, belong to any given SuperHyperSet of the SuperHyperVertices. The SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex but there are two white SuperHyperNeighbors outside implying there's no SuperHyperVertex to the SuperHyperSet S does the "the color-change rule". So it doesn't have the minimum cardinality of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of **"the color-change rule"**: a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. Consider some numbers of those SuperHyperVertices from that SuperHyperEdge, without any exclusion on some SuperHyperVertices, belong to any given SuperHyperSet of the SuperHyperVertices. The SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex but it implies it doesn't have the **minimum** cardinality of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only one SuperHyperVertex outside the intended SuperHyperSet. Thus the obvious SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph $NSHG$: (V, E). Thus all the following SuperHyperSets of SuperHyperVertices are the simple type-SuperHyperSet of the SuperHyperForcing. It's the contradiction to the SuperHyperSet S is a SuperHyperForcing. Thus any given SuperHyperSet of the SuperHyperVertices contains the number of those SuperHyperVertices from that SuperHyperEdge with some SuperHyperVertices less than excluding one unique SuperHyperVertex, isn't a SuperHyperForcing. Thus if a SuperHyperEdge has some SuperHyperVertices, then, with excluding one unique SuperHyperVertex, the all number of

those SuperHyperVertices from that SuperHyperEdge belong to any SuperHyperForcing. Thus, in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$, every SuperHyperEdge has only one unique SuperHyperVertex outside of SuperHyperForcing. In other words, every SuperHyperEdge has only one unique white SuperHyperVertex. In a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$, the all exterior SuperHyperVertices belong to any SuperHyperForcing if for any of them, there's only one interior SuperHyperVertex is a SuperHyperNeighbor to any of them. □

Proposition 6. *Assume a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$. The any SuperHyperForcing only contains all interior SuperHyperVertices and all exterior SuperHyperVertices where any of them has one SuperHyperNeighbor out.*

Proof. Assume a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$. Let a SuperHyperEdge has some SuperHyperVertices. Consider some numbers of those SuperHyperVertices from that SuperHyperEdge excluding two unique SuperHyperVertices, belong to any given SuperHyperSet of the SuperHyperVertices. The SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex but there are two white SuperHyperNeighbors outside implying there's no SuperHyperVertex to the SuperHyperSet S does the "the color-change rule". So it doesn't have the minimum cardinality of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of **"the color-change rule"**: a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. Consider some numbers of those SuperHyperVertices from that SuperHyperEdge, without any exclusion on some SuperHyperVertices, belong to any given SuperHyperSet of the SuperHyperVertices. The SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex but it implies it doesn't have the **minimum** cardinality of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only one SuperHyperVertex outside the intended SuperHyperSet. Thus the obvious SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$. Thus all the following SuperHyperSets of SuperHyperVertices are the simple type-SuperHyperSet of the SuperHyperForcing. It's the contradiction to the SuperHyperSet S is a SuperHyperForcing. Thus any given SuperHyperSet of the SuperHyperVertices contains the number of those SuperHyperVertices from that SuperHyperEdge with some SuperHyperVertices less than excluding one unique SuperHyperVertex, isn't a SuperHyperForcing. Thus if a SuperHyperEdge has some SuperHyperVertices, then, with excluding one unique SuperHyperVertex, the all number of those SuperHyperVertices from that SuperHyperEdge belong to any SuperHyperForcing. Thus, in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$, every SuperHyperEdge has only one unique SuperHyperVertex outside of SuperHyperForcing. In other words, every SuperHyperEdge has only one unique white SuperHyperVertex. In a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$, the any SuperHyperForcing only contains all interior SuperHyperVertices and all exterior SuperHyperVertices where any of them has one SuperHyperNeighbor out. □

Remark 1. *The words "SuperHyperForcing" and "SuperHyperDominating" refer to the minimum type-style. In other words, they refer to both the minimum number and the SuperHyperSet with the minimum cardinality.*

Proposition 7. *Assume a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$. A complement of SuperHyperForcing is the SuperHyperDominating.*

Proof. Assume a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$. By applying the Proposition (6), the results are up. Thus in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$, a complement of SuperHyperForcing is the SuperHyperDominating. $\square$

3. Neutrosophic SuperHyperForcing

For the sake of having neutrosophic SuperHyperForcing, there's a need to "**redefine**" the notion of "neutrosophic SuperHyperGraph". The SuperHyperVertices and the SuperHyperEdges are assigned by the labels from the letters of the alphabets. In this procedure, there's the usage of the position of labels to assign to the values.

Definition 3. *Assume a neutrosophic SuperHyperGraph. It's redefined **neutrosophic SuperHyperGraph** if the Table 1 holds.*

Table 1. The Values of Vertices, SuperVertices, Edges, HyperEdges, and SuperHyperEdges Belong to The Neutrosophic SuperHyperGraph Mentioned in the Definition (5).

The Values of The Vertices	The Number of Position in Alphabet
The Values of The SuperVertices	The Minimum Values of Its Vertices
The Values of The Edges	The Minimum Values of Its Vertices
The Values of The HyperEdges	The Minimum Values of Its Vertices
The Values of The SuperHyperEdges	The Minimum Values of Its Endpoints

It's useful to define "neutrosophic" version of SuperHyperClasses. Since there's more ways to get neutrosophic type-results to make neutrosophic SuperHyperForcing more understandable.

Definition 4. *Assume a neutrosophic SuperHyperGraph. There are some **neutrosophic SuperHyperClasses** if the Table 2 holds. Thus SuperHyperPath, SuperHyperCycle, SuperHyperStar, SuperHyperBipartite, SuperHyperMultiPartite, and SuperHyperWheel, are **neutrosophic SuperHyperPath**, **neutrosophic SuperHyperCycle**, **neutrosophic SuperHyperStar**, **neutrosophic SuperHyperBipartite**, **neutrosophic SuperHyperMultiPartite**, and **neutrosophic SuperHyperWheel** if the Table 2 holds.*

Table 2. The Values of Vertices, SuperVertices, Edges, HyperEdges, and SuperHyperEdges Belong to The Neutrosophic SuperHyperGraph, Mentioned in the Definition (4).

The Values of The Vertices	The Number of Position in Alphabet
The Values of The SuperVertices	The Minimum Values of Its Vertices
The Values of The Edges	The Minimum Values of Its Vertices
The Values of The HyperEdges	The Minimum Values of Its Vertices
The Values of The SuperHyperEdges	The Minimum Values of Its Endpoints

It's useful to define "neutrosophic" version of SuperHyperForcing. Since there's more ways to get type-results to make SuperHyperForcing more understandable.

For the sake of having neutrosophic SuperHyperForcing, there's a need to "**redefine**" the notion of "SuperHyperForcing". The SuperHyperVertices and the SuperHyperEdges are assigned by the labels from the letters of the alphabets. In this procedure, there's the usage of the position of labels to assign to the values.

Definition 5. *Assume a SuperHyperForcing. It's redefined **neutrosophic SuperHyperForcing** if the Table 3 holds.*

Table 3. The Values of Vertices, SuperVertices, Edges, HyperEdges, and SuperHyperEdges Belong to The Neutrosophic SuperHyperGraph Mentioned in the Definition (5).

The Values of The Vertices	The Number of Position in Alphabet
The Values of The SuperVertices	The Minimum Values of Its Vertices
The Values of The Edges	The Minimum Values of Its Vertices
The Values of The HyperEdges	The Minimum Values of Its Vertices
The Values of The SuperHyperEdges	The Minimum Values of Its Endpoints

Definition 6. *((neutrosophic) SuperHyperForcing).*
Assume a SuperHyperGraph. Then

(i) *a **SuperHyperForcing** $\mathcal{Z}(NSHG)$ for a neutrosophic SuperHyperGraph NSHG : (V, E) is the minimum cardinality of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex;*

(ii) *a **neutrosophic SuperHyperForcing** $\mathcal{Z}_n(NSHG)$ for a neutrosophic SuperHyperGraph NSHG : (V, E) is the minimum neutrosophic cardinality of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex.*

Definition 7. *((neutrosophic)$\delta-$ SuperHyperForcing).*
Assume a SuperHyperGraph. Then

(i) *an $\delta-$**SuperHyperForcing** is a <u>minimal</u> SuperHyperForcing of SuperHyperVertices with <u>minimum</u> cardinality such that either of the following expressions hold for the (neutrosophic) cardinalities of SuperHyperNeighbors of $s \in S$:*

$$|S \cap N(s)| > |S \cap (V \setminus N(s))| + \delta; \tag{5}$$

$$|S \cap N(s)| < |S \cap (V \setminus N(s))| + \delta. \tag{6}$$

*The Expression (5), holds if S is an $\delta-$**SuperHyperOffensive**. And the Expression (6), holds if S is an $\delta-$**SuperHyperDefensive**;*

(ii) *a **neutrosophic** $\delta-$**SuperHyperForcing** is a <u>minimal</u> neutrosophic SuperHyperForcing of SuperHyperVertices with <u>minimum</u> neutrosophic cardinality such that either of the following expressions hold for the neutrosophic cardinalities of SuperHyperNeighbors of $s \in S$:*

$$|S \cap N(s)|_{neutrosophic} > |S \cap (V \setminus N(s))|_{neutrosophic} + \delta; \tag{7}$$

$$|S \cap N(s)|_{neutrosophic} < |S \cap (V \setminus N(s))|_{neutrosophic} + \delta. \tag{8}$$

*The Expression (7), holds if S is a **neutrosophic** $\delta-$**SuperHyperOffensive**. And the Expression (8), holds if S is a **neutrosophic** $\delta-$**SuperHyperDefensive**.*

Example 2. *Assume the neutrosophic SuperHyperGraphs in the Figures 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, and 20.*

- *On the Figure 1, the neutrosophic SuperHyperNotion, namely, neutrosophic SuperHyperForcing, is up. $S = \{V_1, V_2, V_3\}$ is the neutrosophic type-SuperHyperSet of the neutrosophic SuperHyperForcing. The details are followed by the upcoming statements. E_1 and E_3 are some empty SuperHyperEdges but E_2 is a loop SuperHyperEdge and E_4 is an SuperHyperEdge. Thus in the terms of SuperHyperNeighbor, there's only one SuperHyperEdge, namely, E_4. The SuperHyperVertex, V_3 is isolated means that there's no SuperHyperEdge has it as an endpoint. Thus SuperHyperVertex, V_3, is contained in every given*

neutrosophic SuperHyperForcing. All the following SuperHyperSets of SuperHyperVertices are the simple type-SuperHyperSet of the neutrosophic SuperHyperForcing.

$$\{V_3, V_1, V_2\}$$
$$\{V_3, V_1, V_4\}$$
$$\{V_3, V_2, V_4\}$$

*The SuperHyperSet of the SuperHyperVertices, $\{V_3, V_2, V_4, V_1\}$, is a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex but it isn't a neutrosophic SuperHyperForcing. Since it doesn't have **the minimum neutrosophic SuperHyperCardinality** of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only one SuperHyperVertex outside the intended SuperHyperSet. Thus the obvious neutrosophic SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$.*

- *On the Figure 2, the neutrosophic SuperHyperNotion, namely, neutrosophic SuperHyperForcing, is up. $S = \{V_1, V_2, V_3\}$ is the neutrosophic type-SuperHyperSet of the neutrosophic SuperHyperForcing. The details are followed by the upcoming statements. E_1, E_2 and E_3 are some empty SuperHyperEdges but E_4 is an SuperHyperEdge. Thus in the terms of SuperHyperNeighbor, there's only one SuperHyperEdge, namely, E_4. The SuperHyperVertex, V_3 is isolated means that there's no SuperHyperEdge has it as an endpoint. Thus SuperHyperVertex, V_3, is contained in every given neutrosophic SuperHyperForcing. All the following SuperHyperSets of SuperHyperVertices are the simple type-SuperHyperSet of the neutrosophic SuperHyperForcing.*

$$\{V_3, V_1, V_2\}$$
$$\{V_3, V_1, V_4\}$$
$$\{V_3, V_2, V_4\}$$

*The SuperHyperSet of the SuperHyperVertices, $\{V_3, V_2, V_4, V_1\}$, is a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex but it isn't a neutrosophic SuperHyperForcing. Since it doesn't have **the minimum neutrosophic SuperHyperCardinality** of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only one SuperHyperVertex outside the intended SuperHyperSet. Thus the obvious neutrosophic SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$.*

- *On the Figure 3, the neutrosophic SuperHyperNotion, namely, neutrosophic SuperHyperForcing, is up. $S = \{V_1, V_2\}$ is the neutrosophic type-SuperHyperSet of the neutrosophic SuperHyperForcing. The details are followed by the upcoming statements. E_1, E_2 and E_3 are some empty SuperHyperEdges but E_4 is an SuperHyperEdge. Thus in the terms of SuperHyperNeighbor, there's only one SuperHyperEdge,*

namely, E_4. All the following SuperHyperSets of SuperHyperVertices are the simple type-SuperHyperSet of the neutrosophic SuperHyperForcing.

$$\{V_1, V_2\}$$
$$\{V_1, V_3\}$$
$$\{V_2, V_3\}$$

*The SuperHyperSet of the SuperHyperVertices, $\{V_1, V_2, V_3\}$, is a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex but it isn't a neutrosophic SuperHyperForcing.   Since it doesn't have **the minimum neutrosophic SuperHyperCardinality** of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only one SuperHyperVertex outside the intended SuperHyperSet. Thus the obvious neutrosophic SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$. Thus all the following SuperHyperSets of SuperHyperVertices are the simple type-SuperHyperSet of the neutrosophic SuperHyperForcing.*

$$\{V_1, V_2\}$$
$$\{V_1, V_3\}$$
$$\{V_2, V_3\}$$

*since the SuperHyperSets of the SuperHyperVertices, $\{V_1, V_2\}, \{V_1, V_3\}, \{V_2, V_3\}$ are the SuperHyperSets Ss of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex **and** they are **neutrosophic SuperHyperForcing**. Since they've **the minimum neutrosophic SuperHyperCardinality** of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only one SuperHyperVertex outside the intended SuperHyperSet, $V \setminus \{v\}$. Thus the obvious neutrosophic SuperHyperForcing, $V \setminus \{v\}$, is up. The obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing, $V \setminus \{v\}$, is a SuperHyperSet, $V \setminus \{v\}$, excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$.*

- *On the Figure 4, the neutrosophic SuperHyperNotion, namely, neutrosophic SuperHyperForcing, is up. $S = \{V_1, V_3, H, V_4, V_2, F\}$ is the neutrosophic type-SuperHyperSet of the neutrosophic SuperHyperForcing. The details are followed by the upcoming statements. There's no empty SuperHyperEdge but E_3 are a loop SuperHyperEdge on $\{F\}$, and there are some SuperHyperEdges, namely, E_1 on $\{H, V_1, V_3\}$, alongside E_2 on $\{O, H, V_4, V_3\}$ and E_4, E_5 on $\{N, V_1, V_2, V_3, F\}$. The SuperHyperSet of SuperHyperVertices, $\{V_1, V_3, H, V_4, V_2, F\}$ is the simple type-SuperHyperSet of the neutrosophic SuperHyperForcing. The SuperHyperSet of the SuperHyperVertices, $\{V_1, V_3, H, V_4, V_2, F\}$, is **the minimum neutrosophic SuperHyperCardinality** of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black*

*SuperHyperVertex. In There's not only one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious neutrosophic SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$. But the SuperHyperSet of SuperHyperVertices, $\{V_1, V_3, H, V_4, V_2, F\}$, has more than one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing is up. To sum them up, the SuperHyperSet of SuperHyperVertices, $\{V_1, V_3, H, V_4, V_2, F\}$, is the non-obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing. Since the SuperHyperSet of the SuperHyperVertices, $\{V_1, V_3, H, V_4, V_2, F\}$, is the SuperHyperSet Ss of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex **<u>and</u>** they are **<u>neutrosophic SuperHyperForcing</u>**. Since it'**<u>s the minimum neutrosophic SuperHyperCardinality</u>** of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only more than one SuperHyperVertex outside the intended SuperHyperSet, $\{V_1, V_3, H, V_4, V_2, F\}$. Thus the non-obvious neutrosophic SuperHyperForcing, $\{V_1, V_3, H, V_4, V_2, F\}$, is up. The non-obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing, $\{V_1, V_3, H, V_4, V_2, F\}$, is a SuperHyperSet, $\{V_1, V_3, H, V_4, V_2, F\}$, excludes only more than one SuperHyperVertex in a connected neutrosophic SuperHyperGraph NSHG : (V, E).*

- *On the Figure [5](#), the neutrosophic SuperHyperNotion, namely, neutrosophic SuperHyperForcing, is up.*

$$S = \{V_2, V_3, V_4, V_5, V_7, V_8, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$$

*is the neutrosophic type-SuperHyperSet of the neutrosophic SuperHyperForcing. The details are followed by the upcoming statements. There's neither empty SuperHyperEdge nor loop SuperHyperEdge. The SuperHyperSet of SuperHyperVertices, $\{V_2, V_3, V_4, V_5, V_7, V_8, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, is the simple type-SuperHyperSet of the neutrosophic SuperHyperForcing. The SuperHyperSet of the SuperHyperVertices, $\{V_2, V_3, V_4, V_5, V_7, V_8, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, is **<u>the minimum neutrosophic SuperHyperCardinality</u>** of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. In There's not only one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious neutrosophic SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph NSHG : (V, E). But the SuperHyperSet of SuperHyperVertices, $\{V_2, V_3, V_4, V_5, V_7, V_8, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, has more than one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing is up. To sum them up, the SuperHyperSet of SuperHyperVertices, $\{V_2, V_3, V_4, V_5, V_7, V_8, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, is the non-obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing. Since the SuperHyperSet of the SuperHyperVertices, $\{V_2, V_3, V_4, V_5, V_7, V_8, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, is the SuperHyperSet Ss of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex **<u>and</u>** they are **<u>neutrosophic SuperHyperForcing</u>**. Since it'**<u>s</u>** **<u>the minimum neutrosophic SuperHyperCardinality</u>** of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is*

turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only more than one SuperHyperVertex outside the intended SuperHyperSet, $\{V_2, V_3, V_4, V_5, V_7, V_8, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$. Thus the non-obvious neutrosophic SuperHyperForcing, $\{V_2, V_3, V_4, V_5, V_7, V_8, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, is up. The non-obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing, $\{V_2, V_3, V_4, V_5, V_7, V_8, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, is a SuperHyperSet, $\{V_2, V_3, V_4, V_5, V_7, V_8, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, excludes only more than one SuperHyperVertex in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$.

- *On the Figure 6, the neutrosophic SuperHyperNotion, namely, neutrosophic SuperHyperForcing, is up.*

$$S = \{V_1, V_3, V_5, V_7, V_9, V_{21}, V_{12}, V_{14}, V_{16}, V_{18}, V_{20}, V_{22}\},$$

*is the neutrosophic type-SuperHyperSet of the neutrosophic SuperHyperForcing. The details are followed by the upcoming statements. There's neither empty SuperHyperEdge nor loop SuperHyperEdge. The SuperHyperSet of SuperHyperVertices, $\{V_1, V_3, V_5, V_7, V_9, V_{21}, V_{12}, V_{14}, V_{16}, V_{18}, V_{20}, V_{22}\}$, is the simple type-SuperHyperSet of the neutrosophic SuperHyperForcing. The SuperHyperSet of the SuperHyperVertices, $\{V_1, V_3, V_5, V_7, V_9, V_{21}, V_{12}, V_{14}, V_{16}, V_{18}, V_{20}, V_{22}\}$, is **the minimum neutrosophic SuperHyperCardinality** of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. In There's not only one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious neutrosophic SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$. But the SuperHyperSet of SuperHyperVertices, $\{V_1, V_3, V_5, V_7, V_9, V_{21}, V_{12}, V_{14}, V_{16}, V_{18}, V_{20}, V_{22}\}$, has more than one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing is up. To sum them up, the SuperHyperSet of SuperHyperVertices, $\{V_1, V_3, V_5, V_7, V_9, V_{21}, V_{12}, V_{14}, V_{16}, V_{18}, V_{20}, V_{22}\}$, is the non-obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing. Since the SuperHyperSet of the SuperHyperVertices, $\{V_1, V_3, V_5, V_7, V_9, V_{21}, V_{12}, V_{14}, V_{16}, V_{18}, V_{20}, V_{22}\}$, is the SuperHyperSet Ss of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex **and** they are **neutrosophic SuperHyperForcing**. Since it'**s** **the minimum neutrosophic SuperHyperCardinality** of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only more than one SuperHyperVertex outside the intended SuperHyperSet, $\{V_1, V_3, V_5, V_7, V_9, V_{21}, V_{12}, V_{14}, V_{16}, V_{18}, V_{20}, V_{22}\}$. Thus the non-obvious neutrosophic SuperHyperForcing, $\{V_1, V_3, V_5, V_7, V_9, V_{21}, V_{12}, V_{14}, V_{16}, V_{18}, V_{20}, V_{22}\}$, is up. The non-obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing, $\{V_1, V_3, V_5, V_7, V_9, V_{21}, V_{12}, V_{14}, V_{16}, V_{18}, V_{20}, V_{22}\}$, is a SuperHyperSet, $\{V_1, V_3, V_5, V_7, V_9, V_{21}, V_{12}, V_{14}, V_{16}, V_{18}, V_{20}, V_{22}\}$, excludes only more than one SuperHyperVertex in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$.*

- *On the Figure 7, the neutrosophic SuperHyperNotion, namely, neutrosophic SuperHyperForcing, is up.*

$$S = \{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\},$$

*is the neutrosophic type-SuperHyperSet of the neutrosophic SuperHyperForcing. The details are followed by the upcoming statements. There's neither empty SuperHyperEdge nor loop SuperHyperEdge. The SuperHyperSet of SuperHyperVertices, $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, is the simple type-SuperHyperSet of the neutrosophic SuperHyperForcing. The SuperHyperSet of the SuperHyperVertices, $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, is **the minimum neutrosophic SuperHyperCardinality** of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. In There's not only one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious neutrosophic SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph NSHG : (V, E). But the SuperHyperSet of SuperHyperVertices, $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, has more than one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing is up. To sum them up, the SuperHyperSet of SuperHyperVertices, $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, is the non-obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing. Since the SuperHyperSet of the SuperHyperVertices, $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, is the SuperHyperSet Ss of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex **and** they are **neutrosophic SuperHyperForcing**. Since it'**s the minimum neutrosophic SuperHyperCardinality** of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only more than one SuperHyperVertex outside the intended SuperHyperSet, $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$. Thus the non-obvious neutrosophic SuperHyperForcing, $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, is up. The non-obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing, $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, is a SuperHyperSet, $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, excludes only more than one SuperHyperVertex in a connected neutrosophic SuperHyperGraph NSHG : (V, E).*

- *On the Figure 8, the neutrosophic SuperHyperNotion, namely, neutrosophic SuperHyperForcing, is up.*

$$S = \{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\},$$

*is the neutrosophic type-SuperHyperSet of the neutrosophic SuperHyperForcing. The details are followed by the upcoming statements. There's neither empty SuperHyperEdge nor loop SuperHyperEdge. The SuperHyperSet of SuperHyperVertices, $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, is the simple type-SuperHyperSet of the neutrosophic SuperHyperForcing. The SuperHyperSet of the SuperHyperVertices, $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, is **the minimum neutrosophic SuperHyperCardinality** of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. In There's not only one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious neutrosophic SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph NSHG : (V, E). But the SuperHyperSet of SuperHyperVertices, $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, has*

*more than one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing is up. To sum them up, the SuperHyperSet of SuperHyperVertices, $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, is the non-obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing. Since the SuperHyperSet of the SuperHyperVertices, $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, is the SuperHyperSet Ss of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex **<u>and</u>** they are **neutrosophic SuperHyperForcing**. Since it's **<u>s</u> the minimum neutrosophic SuperHyperCardinality** of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only more than one SuperHyperVertex outside the intended SuperHyperSet, $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$. Thus the non-obvious neutrosophic SuperHyperForcing, $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, is up. The non-obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing, $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, is a SuperHyperSet, $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, excludes only more than one SuperHyperVertex in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$.*

- *On the Figure 9, the neutrosophic SuperHyperNotion, namely, neutrosophic SuperHyperForcing, is up.*

$$S = \{V_1, V_3, V_5, V_7, V_9, V_{21}, V_{12}, V_{14}, V_{16}, V_{18}, V_{20}, V_{22}\},$$

*is the neutrosophic type-SuperHyperSet of the neutrosophic SuperHyperForcing. The details are followed by the upcoming statements. There's neither empty SuperHyperEdge nor loop SuperHyperEdge. The SuperHyperSet of SuperHyperVertices, $\{V_1, V_3, V_5, V_7, V_9, V_{21}, V_{12}, V_{14}, V_{16}, V_{18}, V_{20}, V_{22}\}$, is the simple type-SuperHyperSet of the neutrosophic SuperHyperForcing. The SuperHyperSet of the SuperHyperVertices, $\{V_1, V_3, V_5, V_7, V_9, V_{21}, V_{12}, V_{14}, V_{16}, V_{18}, V_{20}, V_{22}\}$, is **the minimum neutrosophic SuperHyperCardinality** of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. In There's not only one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious neutrosophic SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$. But the SuperHyperSet of SuperHyperVertices, $\{V_1, V_3, V_5, V_7, V_9, V_{21}, V_{12}, V_{14}, V_{16}, V_{18}, V_{20}, V_{22}\}$, has more than one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing is up. To sum them up, the SuperHyperSet of SuperHyperVertices, $\{V_1, V_3, V_5, V_7, V_9, V_{21}, V_{12}, V_{14}, V_{16}, V_{18}, V_{20}, V_{22}\}$, is the non-obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing. Since the SuperHyperSet of the SuperHyperVertices, $\{V_1, V_3, V_5, V_7, V_9, V_{21}, V_{12}, V_{14}, V_{16}, V_{18}, V_{20}, V_{22}\}$, is the SuperHyperSet Ss of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex **<u>and</u>** they are **neutrosophic SuperHyperForcing**. Since it's **<u>s</u> the minimum neutrosophic SuperHyperCardinality** of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only more than one SuperHyperVertex*

outside the intended SuperHyperSet, $\{V_1, V_3, V_5, V_7, V_9, V_{21}, V_{12}, V_{14}, V_{16}, V_{18}, V_{20}, V_{22}\}$. Thus the non-obvious neutrosophic SuperHyperForcing, $\{V_1, V_3, V_5, V_7, V_9, V_{21}, V_{12}, V_{14}, V_{16}, V_{18}, V_{20}, V_{22}\}$, is up. The non-obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing, $\{V_1, V_3, V_5, V_7, V_9, V_{21}, V_{12}, V_{14}, V_{16}, V_{18}, V_{20}, V_{22}\}$, is a SuperHyperSet, $\{V_1, V_3, V_5, V_7, V_9, V_{21}, V_{12}, V_{14}, V_{16}, V_{18}, V_{20}, V_{22}\}$, excludes only more than one SuperHyperVertex in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$.

- *On the Figure 10, the neutrosophic SuperHyperNotion, namely, neutrosophic SuperHyperForcing, is up. $S = \{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, is the neutrosophic type-SuperHyperSet of the neutrosophic SuperHyperForcing. The details are followed by the upcoming statements. There's neither empty SuperHyperEdge nor loop SuperHyperEdge. The SuperHyperSet of SuperHyperVertices, $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, is the simple type-SuperHyperSet of the neutrosophic SuperHyperForcing. The SuperHyperSet of the SuperHyperVertices, $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, is **the minimum neutrosophic SuperHyperCardinality** of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. In There's not only one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious neutrosophic SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$. But the SuperHyperSet of SuperHyperVertices, $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, has more than one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing is up. To sum them up, the SuperHyperSet of SuperHyperVertices, $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, is the non-obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing. Since the SuperHyperSet of the SuperHyperVertices, $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, is the SuperHyperSet Ss of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex **and** they are **neutrosophic SuperHyperForcing**. Since it's **the minimum neutrosophic SuperHyperCardinality** of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only more than one SuperHyperVertex outside the intended SuperHyperSet, $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$. Thus the non-obvious neutrosophic SuperHyperForcing, $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, is up. The non-obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing, $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, is a SuperHyperSet, $\{V_2, V_3, V_5, V_6, V_7, V_9, V_{10}, V_{11}, V_{12}, V_{13}, V_{14}\}$, excludes only more than one SuperHyperVertex in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$.*

- *On the Figure 11, the neutrosophic SuperHyperNotion, namely, neutrosophic SuperHyperForcing, is up. $S = \{V_2, V_3, V_5, V_6\}$ is the neutrosophic type-SuperHyperSet of the neutrosophic SuperHyperForcing. The details are followed by the upcoming statements. There's neither empty SuperHyperEdge nor loop SuperHyperEdge. The SuperHyperSet of SuperHyperVertices, $\{V_2, V_3, V_5, V_6\}$, is the simple type-SuperHyperSet of the neutrosophic SuperHyperForcing. The SuperHyperSet of the SuperHyperVertices, $\{V_2, V_3, V_5, V_6\}$, is **the minimum neutrosophic SuperHyperCardinality** of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. In There's not only one SuperHyperVertex outside the intended SuperHyperSet.*

*Thus the non-obvious neutrosophic SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph NSHG : (V, E). But the SuperHyperSet of SuperHyperVertices, $\{V_2, V_3, V_5, V_6\}$, has more than one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing is up. To sum them up, the SuperHyperSet of SuperHyperVertices, $\{V_2, V_3, V_5, V_6\}$, is the non-obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing. Since the SuperHyperSet of the SuperHyperVertices, $\{V_2, V_3, V_5, V_6\}$, is the SuperHyperSet Ss of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex **and** they are* **neutrosophic SuperHyperForcing**. *Since it's* **the minimum neutrosophic SuperHyperCardinality** *of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only more than one SuperHyperVertex outside the intended SuperHyperSet, $\{V_2, V_3, V_5, V_6\}$. Thus the non-obvious neutrosophic SuperHyperForcing, $\{V_2, V_3, V_5, V_6\}$, is up. The non-obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing, $\{V_2, V_3, V_5, V_6\}$, is a SuperHyperSet, $\{V_2, V_3, V_5, V_6\}$, excludes only more than one SuperHyperVertex in a connected neutrosophic SuperHyperGraph NSHG : (V, E).*

- *On the Figure 12, the neutrosophic SuperHyperNotion, namely, neutrosophic SuperHyperForcing, is up.*

$$S = \{V_1, V_2, V_3, V_4, V_5, V_6, V_7, V_9\},$$

is the neutrosophic type-SuperHyperSet of the neutrosophic SuperHyperForcing. The details are followed by the upcoming statements. $S = \{V_1, V_2, V_3\}$ is the neutrosophic type-SuperHyperSet of the neutrosophic SuperHyperForcing. The details are followed by the upcoming statements. There's neither empty SuperHyperEdge nor loop SuperHyperEdge. The SuperHyperSet of SuperHyperVertices, $\{V_1, V_2, V_3, V_4, V_5, V_6, V_7, V_9\}$, is the simple type-SuperHyperSet of the neutrosophic SuperHyperForcing. The SuperHyperSet of the SuperHyperVertices, $\{V_1, V_2, V_3, V_4, V_5, V_6, V_7, V_9\}$, is **the minimum neutrosophic SuperHyperCardinality** *of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. In There's not only one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious neutrosophic SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph NSHG : (V, E). But the SuperHyperSet of SuperHyperVertices, $\{V_1, V_2, V_3, V_4, V_5, V_6, V_7, V_9\}$, has more than one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing is up. To sum them up, the SuperHyperSet of SuperHyperVertices, $\{V_1, V_2, V_3, V_4, V_5, V_6, V_7, V_9\}$, is the non-obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing. Since the SuperHyperSet of the SuperHyperVertices, $\{V_1, V_2, V_3, V_4, V_5, V_6, V_7, V_9\}$, is the SuperHyperSet Ss of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex **and** they are* **neutrosophic SuperHyperForcing**. *Since it's* **the minimum neutrosophic SuperHyperCardinality** *of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor*

of a black SuperHyperVertex. There's only more than one SuperHyperVertex outside the intended SuperHyperSet, $\{V_1, V_2, V_3, V_4, V_5, V_6, V_7, V_9\}$. Thus the non-obvious neutrosophic SuperHyperForcing, $\{V_1, V_2, V_3, V_4, V_5, V_6, V_7, V_9\}$, is up. The non-obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing, $\{V_1, V_2, V_3, V_4, V_5, V_6, V_7, V_9\}$, is a SuperHyperSet, $\{V_1, V_2, V_3, V_4, V_5, V_6, V_7, V_9\}$, excludes only more than one SuperHyperVertex in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$.

- *On the Figure 13, the neutrosophic SuperHyperNotion, namely, neutrosophic SuperHyperForcing, is up. $S = \{V_1, V_2, V_5, V_6\}$ is the neutrosophic type-SuperHyperSet of the neutrosophic SuperHyperForcing. The details are followed by the upcoming statements. There's neither empty SuperHyperEdge nor loop SuperHyperEdge. The SuperHyperSet of SuperHyperVertices, $\{V_1, V_2, V_5, V_6\}$, is the simple type-SuperHyperSet of the neutrosophic SuperHyperForcing. The SuperHyperSet of the SuperHyperVertices, $\{V_1, V_2, V_5, V_6\}$, is **the minimum neutrosophic SuperHyperCardinality** of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. In There's not only one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious neutrosophic SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$. But the SuperHyperSet of SuperHyperVertices, $\{V_1, V_2, V_5, V_6\}$, has more than one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing is up. To sum them up, the SuperHyperSet of SuperHyperVertices, $\{V_1, V_2, V_5, V_6\}$, is the non-obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing. Since the SuperHyperSet of the SuperHyperVertices, $\{V_1, V_2, V_5, V_6\}$, is the SuperHyperSet Ss of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex **and** they are **neutrosophic SuperHyperForcing**. Since it'**s the minimum neutrosophic SuperHyperCardinality** of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only more than one SuperHyperVertex outside the intended SuperHyperSet, $\{V_1, V_2, V_5, V_6\}$. Thus the non-obvious neutrosophic SuperHyperForcing, $\{V_1, V_2, V_5, V_6\}$, is up. The non-obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing, $\{V_1, V_2, V_5, V_6\}$, is a SuperHyperSet, $\{V_1, V_2, V_5, V_6\}$, excludes only more than one SuperHyperVertex in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$.*

- *On the Figure 14, the neutrosophic SuperHyperNotion, namely, neutrosophic SuperHyperForcing, is up. $S = \{V_1\}$ is the neutrosophic type-SuperHyperSet of the neutrosophic SuperHyperForcing. The details are followed by the upcoming statements. There's neither empty SuperHyperEdge nor loop SuperHyperEdge. The SuperHyperSet of SuperHyperVertices, $\{V_1\}$, is the simple type-SuperHyperSet of the neutrosophic SuperHyperForcing. The SuperHyperSet of the SuperHyperVertices, $\{V_1\}$, is **the minimum neutrosophic SuperHyperCardinality** of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. In There's not only one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious neutrosophic SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$. But the SuperHyperSet of SuperHyperVertices, $\{V_1\}$, has more than one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing is up. To sum them up, the*

SuperHyperSet of SuperHyperVertices, $\{V_1\}$, is the non-obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing. Since the SuperHyperSet of the SuperHyperVertices, $\{V_1\}$, is the SuperHyperSet S_s of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex **and** they are **neutrosophic SuperHyperForcing**. Since it's **the minimum neutrosophic SuperHyperCardinality** of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only more than one SuperHyperVertex outside the intended SuperHyperSet, $\{V_1\}$. Thus the non-obvious neutrosophic SuperHyperForcing, $\{V_1\}$, is up. The non-obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing, $\{V_1\}$, is a SuperHyperSet, $\{V_1\}$, excludes only more than one SuperHyperVertex in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$.

- On the Figure 15, the neutrosophic SuperHyperNotion, namely, neutrosophic SuperHyperForcing, is up. $S = \{V_1, V_3, V_6\}$ is the neutrosophic type-SuperHyperSet of the neutrosophic SuperHyperForcing. The details are followed by the upcoming statements. There's neither empty SuperHyperEdge nor loop SuperHyperEdge. The SuperHyperSet of SuperHyperVertices, $\{V_1, V_3, V_6\}$, is the simple type-SuperHyperSet of the neutrosophic SuperHyperForcing. The SuperHyperSet of the SuperHyperVertices, $\{V_1, V_3, V_6\}$, is **the minimum neutrosophic SuperHyperCardinality** of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. In There's not only one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious neutrosophic SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$. But the SuperHyperSet of SuperHyperVertices, $\{V_1, V_3, V_6\}$, has more than one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing is up. To sum them up, the SuperHyperSet of SuperHyperVertices, $\{V_1, V_3, V_6\}$, is the non-obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing. Since the SuperHyperSet of the SuperHyperVertices, $\{V_1, V_3, V_6\}$, is the SuperHyperSet S_s of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex **and** they are **neutrosophic SuperHyperForcing**. Since it's **the minimum neutrosophic SuperHyperCardinality** of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only more than one SuperHyperVertex outside the intended SuperHyperSet, $\{V_1, V_3, V_6\}$. Thus the non-obvious neutrosophic SuperHyperForcing, $\{V_1, V_3, V_6\}$, is up. The non-obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing, $\{V_1, V_3, V_6\}$, is a SuperHyperSet, $\{V_1, V_3, V_6\}$, excludes only more than one SuperHyperVertex in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$.

- On the Figure 16, the neutrosophic SuperHyperNotion, namely, neutrosophic SuperHyperForcing, is up.

$$S = \{V_2, V_3, V_4, V_6, V_8, V_9, V_{10}, V_{12}, V_{15}, V_{14}, V_{13}, V_{17}, V_{16}, V_{19}, V_{18}, V_{21}, V_{20}\},$$

is the neutrosophic type-SuperHyperSet of the neutrosophic SuperHyperForcing. The details are followed by the upcoming statements. There's neither empty SuperHyperEdge nor loop SuperHyperEdge. The SuperHyperSet of SuperHyperVertices,

$$\{V_2, V_3, V_4, V_6, V_8, V_9, V_{10}, V_{12}, V_{15}, V_{14}, V_{13}, V_{17}, V_{16}, V_{19}, V_{18}, V_{21}, V_{20}\},$$

is the simple type-SuperHyperSet of the neutrosophic SuperHyperForcing. The SuperHyperSet of the SuperHyperVertices,

$$\{V_2, V_3, V_4, V_6, V_8, V_9, V_{10}, V_{12}, V_{15}, V_{14}, V_{13}, V_{17}, V_{16}, V_{19}, V_{18}, V_{21}, V_{20}\},$$

is **_the minimum neutrosophic SuperHyperCardinality_** *of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. In There's not only one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious neutrosophic SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$. But the SuperHyperSet of SuperHyperVertices,*

$$\{V_2, V_3, V_4, V_6, V_8, V_9, V_{10}, V_{12}, V_{15}, V_{14}, V_{13}, V_{17}, V_{16}, V_{19}, V_{18}, V_{21}, V_{20}\},$$

has more than one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing is up. To sum them up, the SuperHyperSet of SuperHyperVertices,

$$\{V_2, V_3, V_4, V_6, V_8, V_9, V_{10}, V_{12}, V_{15}, V_{14}, V_{13}, V_{17}, V_{16}, V_{19}, V_{18}, V_{21}, V_{20}\},$$

is the non-obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing. Since the SuperHyperSet of the SuperHyperVertices,

$$\{V_2, V_3, V_4, V_6, V_8, V_9, V_{10}, V_{12}, V_{15}, V_{14}, V_{13}, V_{17}, V_{16}, V_{19}, V_{18}, V_{21}, V_{20}\},$$

is the SuperHyperSet Ss of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex **_and_** *they are* **_neutrosophic SuperHyperForcing_**. *Since it's* **_the minimum neutrosophic SuperHyperCardinality_** *of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only more than one SuperHyperVertex outside the intended SuperHyperSet,*

$$\{V_2, V_3, V_4, V_6, V_8, V_9, V_{10}, V_{12}, V_{15}, V_{14}, V_{13}, V_{17}, V_{16}, V_{19}, V_{18}, V_{21}, V_{20}\}.$$

Thus the non-obvious neutrosophic SuperHyperForcing,

$$\{V_2, V_3, V_4, V_6, V_8, V_9, V_{10}, V_{12}, V_{15}, V_{14}, V_{13}, V_{17}, V_{16}, V_{19}, V_{18}, V_{21}, V_{20}\},$$

is up. The non-obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing,

$$\{V_2, V_3, V_4, V_6, V_8, V_9, V_{10}, V_{12}, V_{15}, V_{14}, V_{13}, V_{17}, V_{16}, V_{19}, V_{18}, V_{21}, V_{20}\},$$

is a SuperHyperSet,

$$\{V_2, V_3, V_4, V_6, V_8, V_9, V_{10}, V_{12}, V_{15}, V_{14}, V_{13}, V_{17}, V_{16}, V_{19}, V_{18}, V_{21}, V_{20}\},$$

excludes only more than one SuperHyperVertex in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$.

- *On the Figure 17, the neutrosophic SuperHyperNotion, namely, neutrosophic SuperHyperForcing, is up.*

$$S = \{V_2, V_3, V_4, V_6, V_8, V_9, V_{10}, V_{12}, V_{15}, V_{14}, V_{13}, V_{17}, V_{16}, V_{19}, V_{18}, V_{21}, V_{23}, V_1,$$
$$V_{24}, V_{29}, V_{25}, V_{28}, V_{26}\},$$

is the neutrosophic type-SuperHyperSet of the neutrosophic SuperHyperForcing. The details are followed by the upcoming statements. There's neither empty SuperHyperEdge nor loop SuperHyperEdge. The SuperHyperSet of SuperHyperVertices,

is the simple type-SuperHyperSet of the neutrosophic SuperHyperForcing. The SuperHyperSet of the SuperHyperVertices,

$$\{V_2, V_3, V_4, V_6, V_8, V_9, V_{10}, V_{12}, V_{15}, V_{14}, V_{13}, V_{17}, V_{16}, V_{19}, V_{18}, V_{21}, V_{23}, V_1,$$
$$V_{24}, V_{29}, V_{25}, V_{28}, V_{26}\},$$

*is **the minimum neutrosophic SuperHyperCardinality** of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. In There's not only one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious neutrosophic SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$. But the SuperHyperSet of SuperHyperVertices,*

$$\{V_2, V_3, V_4, V_6, V_8, V_9, V_{10}, V_{12}, V_{15}, V_{14}, V_{13}, V_{17}, V_{16}, V_{19}, V_{18}, V_{21}, V_{23}, V_1,$$
$$V_{24}, V_{29}, V_{25}, V_{28}, V_{26}\},$$

has more than one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing is up. To sum them up, the SuperHyperSet of SuperHyperVertices,

$$\{V_2, V_3, V_4, V_6, V_8, V_9, V_{10}, V_{12}, V_{15}, V_{14}, V_{13}, V_{17}, V_{16}, V_{19}, V_{18}, V_{21}, V_{23}, V_1,$$
$$V_{24}, V_{29}, V_{25}, V_{28}, V_{26}\},$$

is the non-obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing. Since the SuperHyperSet of the SuperHyperVertices,

$$\{V_2, V_3, V_4, V_6, V_8, V_9, V_{10}, V_{12}, V_{15}, V_{14}, V_{13}, V_{17}, V_{16}, V_{19}, V_{18}, V_{21}, V_{23}, V_1,$$
$$V_{24}, V_{29}, V_{25}, V_{28}, V_{26}\},$$

*is the SuperHyperSet Ss of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex **and** they are **neutrosophic SuperHyperForcing**. Since it's **the minimum neutrosophic SuperHyperCardinality** of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is*

turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only more than one SuperHyperVertex outside the intended SuperHyperSet,

$$\{V_2, V_3, V_4, V_6, V_8, V_9, V_{10}, V_{12}, V_{15}, V_{14}, V_{13}, V_{17}, V_{16}, V_{19}, V_{18}, V_{21}, V_{23}, V_1,$$
$$V_{24}, V_{29}, V_{25}, V_{28}, V_{26}\}.$$

Thus the non-obvious neutrosophic SuperHyperForcing,

$$\{V_2, V_3, V_4, V_6, V_8, V_9, V_{10}, V_{12}, V_{15}, V_{14}, V_{13}, V_{17}, V_{16}, V_{19}, V_{18}, V_{21}, V_{23}, V_1,$$
$$V_{24}, V_{29}, V_{25}, V_{28}, V_{26}\},$$

is up. The non-obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing,

$$\{V_2, V_3, V_4, V_6, V_8, V_9, V_{10}, V_{12}, V_{15}, V_{14}, V_{13}, V_{17}, V_{16}, V_{19}, V_{18}, V_{21}, V_{23}, V_1,$$
$$V_{24}, V_{29}, V_{25}, V_{28}, V_{26}\},$$

is a SuperHyperSet,

$$\{V_2, V_3, V_4, V_6, V_8, V_9, V_{10}, V_{12}, V_{15}, V_{14}, V_{13}, V_{17}, V_{16}, V_{19}, V_{18}, V_{21}, V_{23}, V_1,$$
$$V_{24}, V_{29}, V_{25}, V_{28}, V_{26}\},$$

excludes only more than one SuperHyperVertex in a connected neutrosophic SuperHyperGraph NSHG : (V, E).

- *On the Figure 18, the neutrosophic SuperHyperNotion, namely, neutrosophic SuperHyperForcing, is up.*

$$S = \{V_1, V_3, R, M_6, L_6, F, P, J, M\}$$

is the neutrosophic type-SuperHyperSet of the neutrosophic SuperHyperForcing. The details are followed by the upcoming statements. There's neither empty SuperHyperEdge nor loop SuperHyperEdge. The SuperHyperSet of SuperHyperVertices, $\{V_1, V_3, R, M_6, L_6, F, P, J, M\}$, *is the simple type-SuperHyperSet of the neutrosophic SuperHyperForcing. The SuperHyperSet of the SuperHyperVertices,* $\{V_1, V_3, R, M_6, L_6, F, P, J, M\}$, *is* **the minimum neutrosophic SuperHyperCardinality** *of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in* $V(G) \setminus S$ *are colored white) such that* $V(G)$ *is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. In There's not only one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious neutrosophic SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph NSHG :* (V, E). *But the SuperHyperSet of SuperHyperVertices,* $\{V_1, V_3, R, M_6, L_6, F, P, J, M\}$, *has more than one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing is up. To sum them up, the SuperHyperSet of SuperHyperVertices,* $\{V_1, V_3, R, M_6, L_6, F, P, J, M\}$, *is the non-obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing. Since the SuperHyperSet of the SuperHyperVertices,* $\{V_1, V_3, R, M_6, L_6, F, P, J, M\}$, *is the SuperHyperSet Ss of black SuperHyperVertices (whereas SuperHyperVertices in* $V(G) \setminus S$ *are colored white) such that* $V(G)$ *is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex* **and** *they are* **neutrosophic SuperHyperForcing**. *Since it's* **the minimum neutrosophic SuperHyperCardinality** *of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in* $V(G) \setminus S$ *are colored*

white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only more than one SuperHyperVertex outside the intended SuperHyperSet, $\{V_1, V_3, R, M_6, L_6, F, P, J, M\}$. Thus the non-obvious neutrosophic SuperHyperForcing, $\{V_1, V_3, R, M_6, L_6, F, P, J, M\}$, is up. The non-obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing, $\{V_1, V_3, R, M_6, L_6, F, P, J, M\}$, is a SuperHyperSet, $\{V_1, V_3, R, M_6, L_6, F, P, J, M\}$, excludes only more than one SuperHyperVertex in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$.

- *On the Figure 19, the neutrosophic SuperHyperNotion, namely, neutrosophic SuperHyperForcing, is up.*

$$S = \{S_3, U_3, V_4, V_5, V_6, V_7, V_8, V_9, V_{10}, R_6, S_6, Z_5, W_5,$$
$$H_6, O_6, E_6, V_2, V_3, R, M_6, L_6, F, P, J, M\},$$

is the neutrosophic type-SuperHyperSet of the neutrosophic SuperHyperForcing. The details are followed by the upcoming statements.There's neither empty SuperHyperEdge nor loop SuperHyperEdge. The SuperHyperSet of SuperHyperVertices,

$$\{S_3, U_3, V_4, V_5, V_6, V_7, V_8, V_9, V_{10}, R_6, S_6, Z_5, W_5,$$
$$H_6, O_6, E_6, V_2, V_3, R, M_6, L_6, F, P, J, M\},$$

is the simple type-SuperHyperSet of the neutrosophic SuperHyperForcing. The SuperHyperSet of the SuperHyperVertices,

$$\{S_3, U_3, V_4, V_5, V_6, V_7, V_8, V_9, V_{10}, R_6, S_6, Z_5, W_5,$$
$$H_6, O_6, E_6, V_2, V_3, R, M_6, L_6, F, P, J, M\},$$

*is **the minimum neutrosophic SuperHyperCardinality** of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. In There's not only one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious neutrosophic SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$. But the SuperHyperSet of SuperHyperVertices,*

$$\{S_3, U_3, V_4, V_5, V_6, V_7, V_8, V_9, V_{10}, R_6, S_6, Z_5, W_5,$$
$$H_6, O_6, E_6, V_2, V_3, R, M_6, L_6, F, P, J, M\},$$

has more than one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing is up. To sum them up, the SuperHyperSet of SuperHyperVertices,

$$\{S_3, U_3, V_4, V_5, V_6, V_7, V_8, V_9, V_{10}, R_6, S_6, Z_5, W_5,$$
$$H_6, O_6, E_6, V_2, V_3, R, M_6, L_6, F, P, J, M\},$$

is the non-obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing. Since the SuperHyperSet of the SuperHyperVertices,

$$\{S_3, U_3, V_4, V_5, V_6, V_7, V_8, V_9, V_{10}, R_6, S_6, Z_5, W_5,$$
$$H_6, O_6, E_6, V_2, V_3, R, M_6, L_6, F, P, J, M\},$$

*is the SuperHyperSet Ss of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex **and** they are **neutrosophic SuperHyperForcing**. Since it's <u>**the minimum neutrosophic SuperHyperCardinality**</u> of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only more than one SuperHyperVertex outside the intended SuperHyperSet,*

$$\{S_3, U_3, V_4, V_5, V_6, V_7, V_8, V_9, V_{10}, R_6, S_6, Z_5, W_5,$$
$$H_6, O_6, E_6, V_2, V_3, R, M_6, L_6, F, P, J, M\}.$$

Thus the non-obvious neutrosophic SuperHyperForcing,

$$\{S_3, U_3, V_4, V_5, V_6, V_7, V_8, V_9, V_{10}, R_6, S_6, Z_5, W_5,$$
$$H_6, O_6, E_6, V_2, V_3, R, M_6, L_6, F, P, J, M\},$$

is up. The non-obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing,

$$\{S_3, U_3, V_4, V_5, V_6, V_7, V_8, V_9, V_{10}, R_6, S_6, Z_5, W_5,$$
$$H_6, O_6, E_6, V_2, V_3, R, M_6, L_6, F, P, J, M\},$$

is a SuperHyperSet,

$$\{S_3, U_3, V_4, V_5, V_6, V_7, V_8, V_9, V_{10}, R_6, S_6, Z_5, W_5,$$
$$H_6, O_6, E_6, V_2, V_3, R, M_6, L_6, F, P, J, M\},$$

excludes only more than one SuperHyperVertex in a connected neutrosophic SuperHyperGraph NSHG : (V, E).

- *On the Figure 20, the neutrosophic SuperHyperNotion, namely, neutrosophic SuperHyperForcing, is up.*

$$S = \{V_1, V_{11}, V_4, U_6, H_7, V_5,$$
$$V_7, V_8, V_9, v_8, W_8, U_8, S_8, T_8, C_9,$$
$$K_9, O_9, L_9, O_4, R_4, R_4, S_4\},$$

is the neutrosophic type-SuperHyperSet of the neutrosophic SuperHyperForcing. The details are followed by the upcoming statements. There's neither empty SuperHyperEdge nor loop SuperHyperEdge. The SuperHyperSet of SuperHyperVertices,

$$\{V_1, V_{11}, V_4, U_6, H_7, V_5,$$
$$V_7, V_8, V_9, v_8, W_8, U_8, S_8, T_8, C_9,$$
$$K_9, O_9, L_9, O_4, R_4, R_4, S_4\},$$

is the simple type-SuperHyperSet of the neutrosophic SuperHyperForcing. The SuperHyperSet of the SuperHyperVertices,

$$\{V_1, V_{11}, V_4, U_6, H_7, V_5,$$
$$V_7, V_8, V_9, v_8, W_8, U_8, S_8, T_8, C_9,$$
$$K_9, O_9, L_9, O_4, R_4, R_4, S_4\},$$

is *__the minimum neutrosophic SuperHyperCardinality__* *of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. In There's not only one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious neutrosophic SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$. But the SuperHyperSet of SuperHyperVertices,*

$$\{V_1, V_{11}, V_4, U_6, H_7, V_5,$$
$$V_7, V_8, V_9, v_8, W_8, U_8, S_8, T_8, C_9,$$
$$K_9, O_9, L_9, O_4, R_4, R_4, S_4\},$$

has more than one SuperHyperVertex outside the intended SuperHyperSet. Thus the non-obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing is up. To sum them up, the SuperHyperSet of SuperHyperVertices,

$$\{V_1, V_{11}, V_4, U_6, H_7, V_5,$$
$$V_7, V_8, V_9, v_8, W_8, U_8, S_8, T_8, C_9,$$
$$K_9, O_9, L_9, O_4, R_4, R_4, S_4\},$$

is the non-obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing. Since the SuperHyperSet of the SuperHyperVertices,

$$\{V_1, V_{11}, V_4, U_6, H_7, V_5,$$
$$V_7, V_8, V_9, v_8, W_8, U_8, S_8, T_8, C_9,$$
$$K_9, O_9, L_9, O_4, R_4, R_4, S_4\},$$

is the SuperHyperSet Ss of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex __and__ they are __neutrosophic SuperHyperForcing__. Since it's __the minimum neutrosophic SuperHyperCardinality__ of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only more than one SuperHyperVertex outside the intended SuperHyperSet,

$$\{V_1, V_{11}, V_4, U_6, H_7, V_5,$$
$$V_7, V_8, V_9, v_8, W_8, U_8, S_8, T_8, C_9,$$
$$K_9, O_9, L_9, O_4, R_4, R_4, S_4\}.$$

Thus the non-obvious neutrosophic SuperHyperForcing,

$$\{V_1, V_{11}, V_4, U_6, H_7, V_5,$$
$$V_7, V_8, V_9, v_8, W_8, U_8, S_8, T_8, C_9,$$
$$K_9, O_9, L_9, O_4, R_4, R_4, S_4\},$$

is up. The non-obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing,

$$\{V_1, V_{11}, V_4, U_6, H_7, V_5,$$
$$V_7, V_8, V_9, v_8, W_8, U_8, S_8, T_8, C_9,$$
$$K_9, O_9, L_9, O_4, R_4, R_4, S_4\},$$

is a SuperHyperSet,

$$\{V_1, V_{11}, V_4, U_6, H_7, V_5,$$
$$V_7, V_8, V_9, v_8, W_8, U_8, S_8, T_8, C_9,$$
$$K_9, O_9, L_9, O_4, R_4, R_4, S_4\},$$

excludes only more than one SuperHyperVertex in a connected neutrosophic SuperHyperGraph NSHG : (V, E).

Proposition 8. *Assume a connected neutrosophic SuperHyperGraph NSHG* : (V, E). *Then in the worst case, literally,* $V \setminus \{v\}$ *is a neutrosophic SuperHyperForcing. In other words, the most neutrosophic SuperHyperCardinality, the upper sharp bound for neutrosophic SuperHyperCardinality, of neutrosophic SuperHyperForcing is the neutrosophic SuperHyperCardinality of* $V \setminus \{v\}$.

Proof. Assume a connected neutrosophic SuperHyperGraph $NSHG$: (V, E). The SuperHyperSet of the SuperHyperVertices V is a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex but it isn't a neutrosophic SuperHyperForcing. Since it doesn't have **the minimum neutrosophic SuperHyperCardinality** of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only one SuperHyperVertex outside the intended SuperHyperSet, $V \setminus \{v\}$. Thus the obvious neutrosophic SuperHyperForcing, $V \setminus \{v\}$, is up. The obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing, $V \setminus \{v\}$, is a SuperHyperSet, $V \setminus \{v\}$, excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph $NSHG$: (V, E). □

Proposition 9. *Assume a connected neutrosophic SuperHyperGraph NSHG* : (V, E). *Then the extreme number of neutrosophic SuperHyperForcing has, the most neutrosophic SuperHyperCardinality, the upper sharp bound for neutrosophic SuperHyperCardinality, is the extreme neutrosophic SuperHyperCardinality of V if there's a neutrosophic SuperHyperForcing with the most neutrosophic SuperHyperCardinality, the upper sharp bound for neutrosophic SuperHyperCardinality.*

Proof. Assume a connected neutrosophic SuperHyperGraph $NSHG$: (V, E). Consider there's a neutrosophic SuperHyperForcing with the most neutrosophic SuperHyperCardinality, the upper sharp bound for neutrosophic SuperHyperCardinality. The SuperHyperSet of the SuperHyperVertices V is a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex but it isn't a neutrosophic SuperHyperForcing. Since it doesn't have **the minimum neutrosophic SuperHyperCardinality** of a SuperHyperSet S of

black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only one SuperHyperVertex outside the intended SuperHyperSet, $V \setminus \{v\}$. Thus the obvious neutrosophic SuperHyperForcing, $V \setminus \{v\}$, is up. The obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing, $V \setminus \{v\}$, is a SuperHyperSet, $V \setminus \{v\}$, excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$. It implies that extreme number of neutrosophic SuperHyperForcing has, the most neutrosophic SuperHyperCardinality, the upper sharp bound for neutrosophic SuperHyperCardinality, is $|V|$ choose $|V| - 1$. Thus it induces that the extreme number of neutrosophic SuperHyperForcing has, the most neutrosophic SuperHyperCardinality, the upper sharp bound for neutrosophic SuperHyperCardinality, is the extreme neutrosophic SuperHyperCardinality of V if there's a neutrosophic SuperHyperForcing with the most neutrosophic SuperHyperCardinality, the upper sharp bound for neutrosophic SuperHyperCardinality. □

Proposition 10. *Assume a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$. If a SuperHyperEdge has z SuperHyperVertices, then $z - 1$ number of those SuperHyperVertices from that SuperHyperEdge belong to any neutrosophic SuperHyperForcing.*

Proof. Assume a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$. Let a SuperHyperEdge has z SuperHyperVertices. Consider $z - 2$ number of those SuperHyperVertices from that SuperHyperEdge belong to any given SuperHyperSet of the SuperHyperVertices. The SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex but there are two white SuperHyperNeighbors outside implying there's no SuperHyperVertex to the SuperHyperSet S does the "the color-change rule". So it doesn't have the minimum neutrosophic SuperHyperCardinality of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of **"the color-change rule"**: a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only one SuperHyperVertex outside the intended SuperHyperSet. Thus the obvious neutrosophic SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$. Thus all the following SuperHyperSets of SuperHyperVertices are the simple type-SuperHyperSet of the neutrosophic SuperHyperForcing. It's the contradiction to the SuperHyperSet S is a neutrosophic SuperHyperForcing. Thus any given SuperHyperSet of the SuperHyperVertices contains the number of those SuperHyperVertices from that SuperHyperEdge with z SuperHyperVertices less than $z - 1$ isn't a neutrosophic SuperHyperForcing. Thus if a SuperHyperEdge has z SuperHyperVertices, then $z - 1$ number of those SuperHyperVertices from that SuperHyperEdge belong to any neutrosophic SuperHyperForcing. □

Proposition 11. *Assume a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$. Every SuperHyperEdge has only one unique SuperHyperVertex outside of neutrosophic SuperHyperForcing. In other words, every SuperHyperEdge has only one unique white SuperHyperVertex.*

Proof. Assume a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$. Let a SuperHyperEdge has some SuperHyperVertices. Consider some numbers of those SuperHyperVertices from that SuperHyperEdge excluding two unique SuperHyperVertices, belong to any given SuperHyperSet of the SuperHyperVertices. The SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of

"the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex but there are two white SuperHyperNeighbors outside implying there's no SuperHyperVertex to the SuperHyperSet S does the "the color-change rule". So it doesn't have the minimum neutrosophic SuperHyperCardinality of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of **"the the color-change rule"**: a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only one SuperHyperVertex outside the intended SuperHyperSet. Thus the obvious neutrosophic SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$. Thus all the following SuperHyperSets of SuperHyperVertices are the simple type-SuperHyperSet of the neutrosophic SuperHyperForcing. It's the contradiction to the SuperHyperSet S is a neutrosophic SuperHyperForcing. Thus any given SuperHyperSet of the SuperHyperVertices contains the number of those SuperHyperVertices from that SuperHyperEdge with some SuperHyperVertices less than excluding one unique SuperHyperVertex, isn't a neutrosophic SuperHyperForcing. Thus if a SuperHyperEdge has some SuperHyperVertices, then, with excluding one unique SuperHyperVertex, the all number of those SuperHyperVertices from that SuperHyperEdge belong to any neutrosophic SuperHyperForcing. Thus, in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$, every SuperHyperEdge has only one unique SuperHyperVertex outside of neutrosophic SuperHyperForcing. In other words, every SuperHyperEdge has only one unique white SuperHyperVertex. □

Proposition 12. *Assume a connected neutrosophic SuperHyperGraph NSHG : (V, E). The all exterior SuperHyperVertices belong to any neutrosophic SuperHyperForcing if for any of them, there's only one interior SuperHyperVertex is a SuperHyperNeighbor to any of them.*

Proof. Assume a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$. Let a SuperHyperEdge has some SuperHyperVertices. Consider some numbers of those SuperHyperVertices from that SuperHyperEdge excluding two unique SuperHyperVertices, belong to any given SuperHyperSet of the SuperHyperVertices. The SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex but there are two white SuperHyperNeighbors outside implying there's no SuperHyperVertex to the SuperHyperSet S does the "the color-change rule". So it doesn't have the minimum neutrosophic SuperHyperCardinality of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of **"the color-change rule"**: a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. Consider some numbers of those SuperHyperVertices from that SuperHyperEdge, without any exclusion on some SuperHyperVertices, belong to any given SuperHyperSet of the SuperHyperVertices. The SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex but it implies it doesn't have the **minimum** neutrosophic SuperHyperCardinality of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only one SuperHyperVertex outside the intended SuperHyperSet. Thus the obvious neutrosophic SuperHyperForcing is up. The obvious

simple type-SuperHyperSet of the neutrosophic SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$. Thus all the following SuperHyperSets of SuperHyperVertices are the simple type-SuperHyperSet of the neutrosophic SuperHyperForcing. It's the contradiction to the SuperHyperSet S is a neutrosophic SuperHyperForcing. Thus any given SuperHyperSet of the SuperHyperVertices contains the number of those SuperHyperVertices from that SuperHyperEdge with some SuperHyperVertices less than excluding one unique SuperHyperVertex, isn't a neutrosophic SuperHyperForcing. Thus if a SuperHyperEdge has some SuperHyperVertices, then, with excluding one unique SuperHyperVertex, the all number of those SuperHyperVertices from that SuperHyperEdge belong to any neutrosophic SuperHyperForcing. Thus, in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$, every SuperHyperEdge has only one unique SuperHyperVertex outside of neutrosophic SuperHyperForcing. In other words, every SuperHyperEdge has only one unique white SuperHyperVertex. In a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$, the all exterior SuperHyperVertices belong to any neutrosophic SuperHyperForcing if for any of them, there's only one interior SuperHyperVertex is a SuperHyperNeighbor to any of them. □

Proposition 13. *Assume a connected neutrosophic SuperHyperGraph NSHG : (V, E). The any neutrosophic SuperHyperForcing only contains all interior SuperHyperVertices and all exterior SuperHyperVertices where any of them has one SuperHyperNeighbor out.*

Proof. Assume a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$. Let a SuperHyperEdge has some SuperHyperVertices. Consider some numbers of those SuperHyperVertices from that SuperHyperEdge excluding two unique SuperHyperVertices, belong to any given SuperHyperSet of the SuperHyperVertices. The SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex but there are two white SuperHyperNeighbors outside implying there's no SuperHyperVertex to the SuperHyperSet S does the "the color-change rule". So it doesn't have the minimum neutrosophic SuperHyperCardinality of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of **"the color-change rule"**: a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. Consider some numbers of those SuperHyperVertices from that SuperHyperEdge, without any exclusion on some SuperHyperVertices, belong to any given SuperHyperSet of the SuperHyperVertices. The SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex but it implies it doesn't have the **minimum** neutrosophic SuperHyperCardinality of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only one SuperHyperVertex outside the intended SuperHyperSet. Thus the obvious neutrosophic SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the neutrosophic SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$. Thus all the following SuperHyperSets of SuperHyperVertices are the simple type-SuperHyperSet of the neutrosophic SuperHyperForcing. It's the contradiction to the SuperHyperSet S is a neutrosophic SuperHyperForcing. Thus any given SuperHyperSet of the SuperHyperVertices contains the number of those SuperHyperVertices from that SuperHyperEdge with some SuperHyperVertices less than

excluding one unique SuperHyperVertex, isn't a neutrosophic SuperHyperForcing. Thus if a SuperHyperEdge has some SuperHyperVertices, then, with excluding one unique SuperHyperVertex, the all number of those SuperHyperVertices from that SuperHyperEdge belong to any neutrosophic SuperHyperForcing. Thus, in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$, every SuperHyperEdge has only one unique SuperHyperVertex outside of neutrosophic SuperHyperForcing. In other words, every SuperHyperEdge has only one unique white SuperHyperVertex. In a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$, the any neutrosophic SuperHyperForcing only contains all interior SuperHyperVertices and all exterior SuperHyperVertices where any of them has one SuperHyperNeighbor out. □

Remark 2. *The words "neutrosophic SuperHyperForcing" and "SuperHyperDominating" refer to the minimum type-style. In other words, they refer to both the minimum number and the SuperHyperSet with the minimum neutrosophic SuperHyperCardinality.*

Proposition 14. *Assume a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$. A complement of neutrosophic SuperHyperForcing is the SuperHyperDominating.*

Proof. Assume a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$. By applying the Proposition (13), the results are up. Thus in a connected neutrosophic SuperHyperGraph $NSHG : (V, E)$, a complement of neutrosophic SuperHyperForcing is the SuperHyperDominating. □

4. Results on SuperHyperClasses

Proposition 15. *Assume a connected SuperHyperPath $NSHP : (V, E)$. Then a SuperHyperForcing-style with the maximum SuperHyperCardinality is a SuperHyperSet of the exterior SuperHyperVertices.*

Proposition 16. *Assume a connected SuperHyperPath $NSHP : (V, E)$. Then a SuperHyperForcing is a SuperHyperSet of the exterior SuperHyperVertices and the interior SuperHyperVertices with only one exception in the form of interior SuperHyperVertices from any given SuperHyperEdge. A SuperHyperForcing has the number of all the SuperHyperVertices minus on the number of exterior SuperHyperParts plus one.*

Proof. Assume a connected SuperHyperPath $NSHP : (V, E)$. Let a SuperHyperEdge has some SuperHyperVertices. Consider some numbers of those SuperHyperVertices from that SuperHyperEdge excluding two unique SuperHyperVertices, belong to any given SuperHyperSet of the SuperHyperVertices. The SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex but there are two white SuperHyperNeighbors outside implying there's no SuperHyperVertex to the SuperHyperSet S does the "the color-change rule". So it doesn't have the minimum SuperHyperCardinality of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of **"the color-change rule"**: a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. Consider some numbers of those SuperHyperVertices from that SuperHyperEdge, without any exclusion on some SuperHyperVertices, belong to any given SuperHyperSet of the SuperHyperVertices. The SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex but it implies it doesn't have the **minimum** SuperHyperCardinality of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely

many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only one SuperHyperVertex outside the intended SuperHyperSet. Thus the obvious SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected SuperHyperPath $NSHP : (V, E)$. Thus all the following SuperHyperSets of SuperHyperVertices are the simple type-SuperHyperSet of the SuperHyperForcing. It's the contradiction to the SuperHyperSet S is a SuperHyperForcing. Thus any given SuperHyperSet of the SuperHyperVertices contains the number of those SuperHyperVertices from that SuperHyperEdge with some SuperHyperVertices less than excluding one unique SuperHyperVertex, isn't a SuperHyperForcing. Thus if a SuperHyperEdge has some SuperHyperVertices, then, with excluding one unique SuperHyperVertex, the all number of those SuperHyperVertices from that SuperHyperEdge belong to any SuperHyperForcing. Thus, in a connected SuperHyperPath $NSHP : (V, E)$, every SuperHyperEdge has only one unique SuperHyperVertex outside of SuperHyperForcing. In other words, every SuperHyperEdge has only one unique white SuperHyperVertex. In a connected SuperHyperPath $NSHP : (V, E)$, the any SuperHyperForcing only contains all interior SuperHyperVertices and all exterior SuperHyperVertices where any of them has one SuperHyperNeighbor out. Then a SuperHyperForcing is a SuperHyperSet of the exterior SuperHyperVertices and the interior SuperHyperVertices with only one exception in the form of interior SuperHyperVertices from any given SuperHyperEdge. A SuperHyperForcing has the number of all the SuperHyperVertices minus on the number of exterior SuperHyperParts plus one. □

Example 3. *In the Figure 21, the connected SuperHyperPath NSHP : (V, E), is highlighted and featured. The SuperHyperSet, $S = V \setminus \{V_{27}, V_3, V_7, V_{13}, V_{22}\}$ of the SuperHyperVertices of the connected SuperHyperPath $NSHP : (V, E)$, in the SuperHyperModel (21), is the SuperHyperForcing.*

Figure 21. A SuperHyperPath Associated to the Notions of SuperHyperForcing in the Example (3).

Proposition 17. *Assume a connected SuperHyperCycle $NSHC : (V, E)$. Then a SuperHyperForcing is a SuperHyperSet of the exterior SuperHyperVertices and the interior SuperHyperVertices with only one exception in the form of interior SuperHyperVertices from any given SuperHyperEdge. A SuperHyperForcing has the number of all the SuperHyperVertices minus on the number of exterior SuperHyperParts.*

Proof. Assume a connected SuperHyperCycle $NSHC : (V, E)$. Let a SuperHyperEdge has some SuperHyperVertices. Consider some numbers of those SuperHyperVertices from that SuperHyperEdge excluding two unique SuperHyperVertices, belong to any given SuperHyperSet of the SuperHyperVertices. The SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex but there are two white SuperHyperNeighbors outside implying there's no SuperHyperVertex to the SuperHyperSet S does the "the color-change rule". So it doesn't have the minimum SuperHyperCardinality of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of **"the color-change rule"**: a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. Consider some numbers of those SuperHyperVertices from that SuperHyperEdge, without any exclusion on some SuperHyperVertices, belong to any given SuperHyperSet of the SuperHyperVertices. The SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex but it implies it doesn't have the **minimum** SuperHyperCardinality of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only one SuperHyperVertex outside the intended SuperHyperSet. Thus the obvious SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected SuperHyperCycle $NSHC : (V, E)$. Thus all the following SuperHyperSets of SuperHyperVertices are the simple type-SuperHyperSet of the SuperHyperForcing. It's the contradiction to the SuperHyperSet S is a SuperHyperForcing. Thus any given SuperHyperSet of the SuperHyperVertices contains the number of those SuperHyperVertices from that SuperHyperEdge with some SuperHyperVertices less than excluding one unique SuperHyperVertex, isn't a SuperHyperForcing. Thus if a SuperHyperEdge has some SuperHyperVertices, then, with excluding one unique SuperHyperVertex, the all number of those SuperHyperVertices from that SuperHyperEdge belong to any SuperHyperForcing. Thus, in a connected SuperHyperCycle $NSHC : (V, E)$, every SuperHyperEdge has only one unique SuperHyperVertex outside of SuperHyperForcing. In other words, every SuperHyperEdge has only one unique white SuperHyperVertex. In a connected SuperHyperCycle $NSHC : (V, E)$, the any SuperHyperForcing only contains all interior SuperHyperVertices and all exterior SuperHyperVertices where any of them has one SuperHyperNeighbor out. Then a SuperHyperForcing is a SuperHyperSet of the exterior SuperHyperVertices and the interior SuperHyperVertices with only one exception in the form of interior SuperHyperVertices from any given SuperHyperEdge. A SuperHyperForcing has the number of all the SuperHyperVertices minus on the number of exterior SuperHyperParts. □

Example 4. *In the Figure* 22, *the connected SuperHyperCycle NSHC : (V, E), is highlighted and featured. The obtained SuperHyperSet, by the Algorithm in previous result, of the SuperHyperVertices of the connected SuperHyperCycle NSHC : (V, E), in the SuperHyperModel* (22), *is the SuperHyperForcing.*
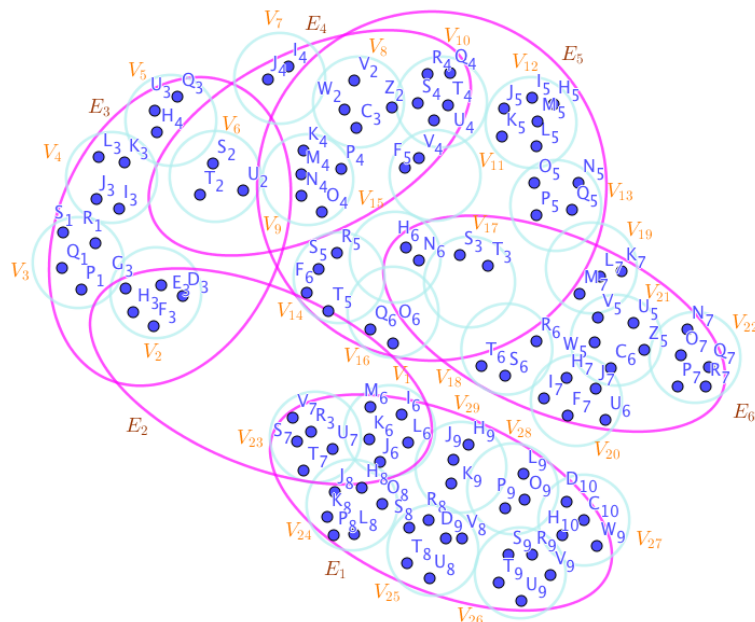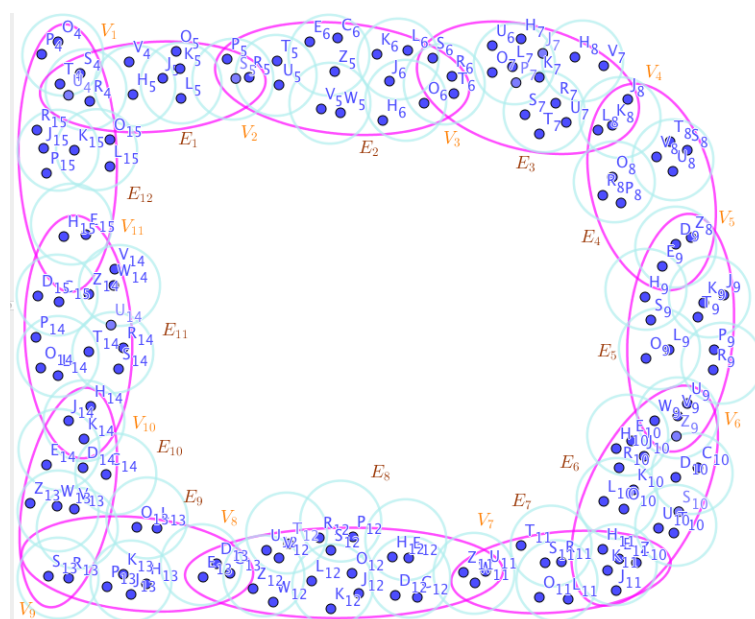
Figure 22. A SuperHyperCycle Associated to the Notions of SuperHyperForcing in the Example (4).

Proposition 18. *Assume a connected SuperHyperStar $NSHS$: (V, E). Then a SuperHyperForcing is a SuperHyperSet of the exterior SuperHyperVertices and the interior SuperHyperVertices with only one exception in the form of interior SuperHyperVertices from any given SuperHyperEdge. A SuperHyperForcing has the number of all the SuperHyperVertices minus on the cardinality of the second SuperHyperPart plus one.*

Proof. Assume a connected SuperHyperStar $NSHS$: (V, E). Let a SuperHyperEdge has some SuperHyperVertices. Consider some numbers of those SuperHyperVertices from that SuperHyperEdge excluding two unique SuperHyperVertices, belong to any given SuperHyperSet of the SuperHyperVertices. The SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex but there are two white SuperHyperNeighbors outside implying there's no SuperHyperVertex to the SuperHyperSet S does the "the color-change rule". So it doesn't have the minimum SuperHyperCardinality of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of **"the color-change rule"**: a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. Consider some numbers of those SuperHyperVertices from that SuperHyperEdge, without any exclusion on some SuperHyperVertices, belong to any given SuperHyperSet of the SuperHyperVertices. The SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex but it implies it doesn't have the **minimum** SuperHyperCardinality of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only one SuperHyperVertex outside the intended SuperHyperSet. Thus the obvious SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected SuperHyperStar

$NSHS : (V, E)$. Thus all the following SuperHyperSets of SuperHyperVertices are the simple type-SuperHyperSet of the SuperHyperForcing. It's the contradiction to the SuperHyperSet S is a SuperHyperForcing. Thus any given SuperHyperSet of the SuperHyperVertices contains the number of those SuperHyperVertices from that SuperHyperEdge with some SuperHyperVertices less than excluding one unique SuperHyperVertex, isn't a SuperHyperForcing. Thus if a SuperHyperEdge has some SuperHyperVertices, then, with excluding one unique SuperHyperVertex, the all number of those SuperHyperVertices from that SuperHyperEdge belong to any SuperHyperForcing. Thus, in a connected SuperHyperStar $NSHS : (V, E)$, every SuperHyperEdge has only one unique SuperHyperVertex outside of SuperHyperForcing. In other words, every SuperHyperEdge has only one unique white SuperHyperVertex. In a connected SuperHyperStar $NSHS : (V, E)$, the any SuperHyperForcing only contains all interior SuperHyperVertices and all exterior SuperHyperVertices where any of them has one SuperHyperNeighbor out. Then a SuperHyperForcing is a SuperHyperSet of the exterior SuperHyperVertices and the interior SuperHyperVertices with only one exception in the form of interior SuperHyperVertices from any given SuperHyperEdge. A SuperHyperForcing has the number of all the SuperHyperVertices minus on the cardinality of the second SuperHyperPart plus one. □

Example 5. *In the Figure 23, the connected SuperHyperStar $NSHS : (V, E)$, is highlighted and featured. The obtained SuperHyperSet, by the Algorithm in previous result, of the SuperHyperVertices of the connected SuperHyperStar $NSHS : (V, E)$, in the SuperHyperModel (23), is the SuperHyperForcing.*

Figure 23. A SuperHyperStar Associated to the Notions of SuperHyperForcing in the Example (5).

Proposition 19. *Assume a connected SuperHyperBipartite $NSHB : (V, E)$. Then a SuperHyperForcing is a SuperHyperSet of the exterior SuperHyperVertices and the interior SuperHyperVertices with only one exception in the form of interior SuperHyperVertices from any given SuperHyperEdge. A SuperHyperForcing has the number of all the SuperHyperVertices minus on the cardinality of the first SuperHyperPart plus the second SuperHyperPart.*

Proof. Assume a connected SuperHyperBipartite $NSHB : (V, E)$. Let a SuperHyperEdge has some SuperHyperVertices. Consider some numbers of those SuperHyperVertices from that SuperHyperEdge excluding two unique SuperHyperVertices, belong to any given SuperHyperSet of the SuperHyperVertices. The SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices

in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex but there are two white SuperHyperNeighbors outside implying there's no SuperHyperVertex to the SuperHyperSet S does the "the color-change rule". So it doesn't have the minimum SuperHyperCardinality of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of **"the color-change rule"**: a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. Consider some numbers of those SuperHyperVertices from that SuperHyperEdge, without any exclusion on some SuperHyperVertices, belong to any given SuperHyperSet of the SuperHyperVertices. The SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex but it implies it doesn't have the **minimum** SuperHyperCardinality of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only one SuperHyperVertex outside the intended SuperHyperSet. Thus the obvious SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected SuperHyperBipartite $NSHB : (V, E)$. Thus all the following SuperHyperSets of SuperHyperVertices are the simple type-SuperHyperSet of the SuperHyperForcing. It's the contradiction to the SuperHyperSet S is a SuperHyperForcing. Thus any given SuperHyperSet of the SuperHyperVertices contains the number of those SuperHyperVertices from that SuperHyperEdge with some SuperHyperVertices less than excluding one unique SuperHyperVertex, isn't a SuperHyperForcing. Thus if a SuperHyperEdge has some SuperHyperVertices, then, with excluding one unique SuperHyperVertex, the all number of those SuperHyperVertices from that SuperHyperEdge belong to any SuperHyperForcing. Thus, in a connected SuperHyperBipartite $NSHB : (V, E)$, every SuperHyperEdge has only one unique SuperHyperVertex outside of SuperHyperForcing. In other words, every SuperHyperEdge has only one unique white SuperHyperVertex. In a connected SuperHyperBipartite $NSHB : (V, E)$, the any SuperHyperForcing only contains all interior SuperHyperVertices and all exterior SuperHyperVertices where any of them has one SuperHyperNeighbor out. Then a SuperHyperForcing is a SuperHyperSet of the exterior SuperHyperVertices and the interior SuperHyperVertices with only one exception in the form of interior SuperHyperVertices from any given SuperHyperEdge. A SuperHyperForcing has the number of all the SuperHyperVertices minus on the cardinality of the first SuperHyperPart plus the second SuperHyperPart. □

Example 6. *In the Figure* 24, *the connected SuperHyperBipartite NSHB : (V, E), is highlighted and featured. The obtained SuperHyperSet, by the Algorithm in previous result, of the SuperHyperVertices of the connected SuperHyperBipartite NSHB : (V, E), in the SuperHyperModel* (24), *is the SuperHyperForcing.*
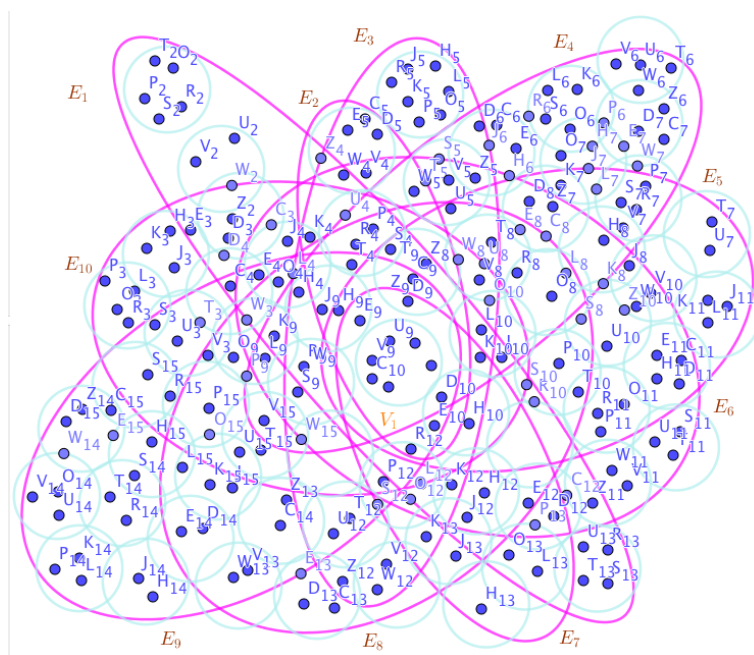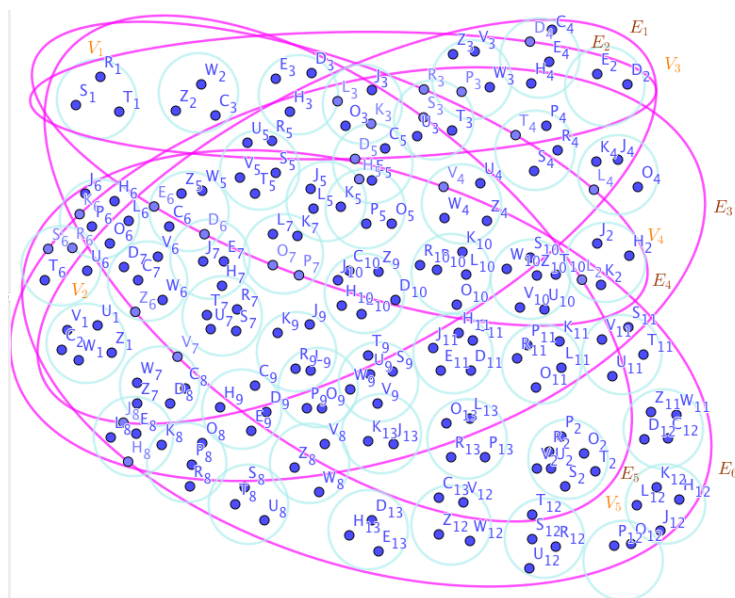
Figure 24. A SuperHyperBipartite Associated to the Notions of SuperHyperForcing in the Example ([6]).

Proposition 20. *Assume a connected SuperHyperMultipartite $NSHM : (V, E)$. Then a SuperHyperForcing is a SuperHyperSet of the exterior SuperHyperVertices and the interior SuperHyperVertices with only one exception in the form of interior SuperHyperVertices from any given SuperHyperEdge. A SuperHyperForcing has the number of all the SuperHyperVertices minus the number of all the the summation on the cardinality of the SuperHyperParts.*

Proof. Assume a connected SuperHyperMultipartite $NSHM : (V, E)$. Let a SuperHyperEdge has some SuperHyperVertices. Consider some numbers of those SuperHyperVertices from that SuperHyperEdge excluding two unique SuperHyperVertices, belong to any given SuperHyperSet of the SuperHyperVertices. The SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex but there are two white SuperHyperNeighbors outside implying there's no SuperHyperVertex to the SuperHyperSet S does the "the color-change rule". So it doesn't have the minimum SuperHyperCardinality of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of **"the color-change rule"**: a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. Consider some numbers of those SuperHyperVertices from that SuperHyperEdge, without any exclusion on some SuperHyperVertices, belong to any given SuperHyperSet of the SuperHyperVertices. The SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex but it implies it doesn't have the **minimum** SuperHyperCardinality of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only one SuperHyperVertex outside the intended SuperHyperSet. Thus the obvious SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected SuperHyperMultipartite

NSHM : (V, E). Thus all the following SuperHyperSets of SuperHyperVertices are the simple type-SuperHyperSet of the SuperHyperForcing. It's the contradiction to the SuperHyperSet S is a SuperHyperForcing. Thus any given SuperHyperSet of the SuperHyperVertices contains the number of those SuperHyperVertices from that SuperHyperEdge with some SuperHyperVertices less than excluding one unique SuperHyperVertex, isn't a SuperHyperForcing. Thus if a SuperHyperEdge has some SuperHyperVertices, then, with excluding one unique SuperHyperVertex, the all number of those SuperHyperVertices from that SuperHyperEdge belong to any SuperHyperForcing. Thus, in a connected SuperHyperMultipartite *NSHM* : (V, E), every SuperHyperEdge has only one unique SuperHyperVertex outside of SuperHyperForcing. In other words, every SuperHyperEdge has only one unique white SuperHyperVertex. In a connected SuperHyperMultipartite *NSHM* : (V, E), the any SuperHyperForcing only contains all interior SuperHyperVertices and all exterior SuperHyperVertices where any of them has one SuperHyperNeighbor out. Then a SuperHyperForcing is a SuperHyperSet of the exterior SuperHyperVertices and the interior SuperHyperVertices with only one exception in the form of interior SuperHyperVertices from any given SuperHyperEdge. A SuperHyperForcing has the number of all the SuperHyperVertices minus the number of all the the summation on the cardinality of the SuperHyperParts. □

Example 7. *In the Figure 25, the connected SuperHyperMultipartite NSHM : (V, E), is highlighted and featured. The obtained SuperHyperSet, by the Algorithm in previous result, of the SuperHyperVertices of the connected SuperHyperMultipartite NSHM : (V, E), in the SuperHyperModel (25), is the SuperHyperForcing.*

Figure 25. A SuperHyperMultipartite Associated to the Notions of SuperHyperForcing in the Example (7).

Proposition 21. *Assume a connected SuperHyperWheel NSHW : (V, E). Then a SuperHyperForcing is a SuperHyperSet of the exterior SuperHyperVertices and the interior SuperHyperVertices with only one exception in the form of interior SuperHyperVertices from any given SuperHyperEdge. A SuperHyperForcing has the number of all the SuperHyperVertices minus the number of all the SuperHyperEdges.*

Proof. Assume a connected SuperHyperWheel *NSHW* : (V, E). Let a SuperHyperEdge has some SuperHyperVertices. Consider some numbers of those SuperHyperVertices from that SuperHyperEdge excluding two unique SuperHyperVertices, belong to any given SuperHyperSet of the SuperHyperVertices. The SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex but there are two

white SuperHyperNeighbors outside implying there's no SuperHyperVertex to the SuperHyperSet S does the "the color-change rule". So it doesn't have the minimum SuperHyperCardinality of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of **"the color-change rule"**: a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. Consider some numbers of those SuperHyperVertices from that SuperHyperEdge, without any exclusion on some SuperHyperVertices, belong to any given SuperHyperSet of the SuperHyperVertices. The SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex but it implies it doesn't have the **minimum** SuperHyperCardinality of a SuperHyperSet S of black SuperHyperVertices (whereas SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white SuperHyperVertex is converted to a black SuperHyperVertex if it is the only white SuperHyperNeighbor of a black SuperHyperVertex. There's only one SuperHyperVertex outside the intended SuperHyperSet. Thus the obvious SuperHyperForcing is up. The obvious simple type-SuperHyperSet of the SuperHyperForcing is a SuperHyperSet excludes only one SuperHyperVertex in a connected SuperHyperWheel $NSHW : (V, E)$. Thus all the following SuperHyperSets of SuperHyperVertices are the simple type-SuperHyperSet of the SuperHyperForcing. It's the contradiction to the SuperHyperSet S is a SuperHyperForcing. Thus any given SuperHyperSet of the SuperHyperVertices contains the number of those SuperHyperVertices from that SuperHyperEdge with some SuperHyperVertices less than excluding one unique SuperHyperVertex, isn't a SuperHyperForcing. Thus if a SuperHyperEdge has some SuperHyperVertices, then, with excluding one unique SuperHyperVertex, the all number of those SuperHyperVertices from that SuperHyperEdge belong to any SuperHyperForcing. Thus, in a connected SuperHyperWheel $NSHW : (V, E)$, every SuperHyperEdge has only one unique SuperHyperVertex outside of SuperHyperForcing. In other words, every SuperHyperEdge has only one unique white SuperHyperVertex. In a connected SuperHyperWheel $NSHW : (V, E)$, the any SuperHyperForcing only contains all interior SuperHyperVertices and all exterior SuperHyperVertices where any of them has one SuperHyperNeighbor out. Then a SuperHyperForcing is a SuperHyperSet of the exterior SuperHyperVertices and the interior SuperHyperVertices with only one exception in the form of interior SuperHyperVertices from any given SuperHyperEdge. A SuperHyperForcing has the number of all the SuperHyperVertices minus the number of all the SuperHyperEdges. □

Example 8. *In the Figure* 26*, the connected SuperHyperWheel NSHW* $: (V, E)$*, is highlighted and featured. The obtained SuperHyperSet, by the Algorithm in previous result, of the SuperHyperVertices of the connected SuperHyperWheel NSHW* $: (V, E)$*, in the SuperHyperModel* (26)*, is the SuperHyperForcing.*
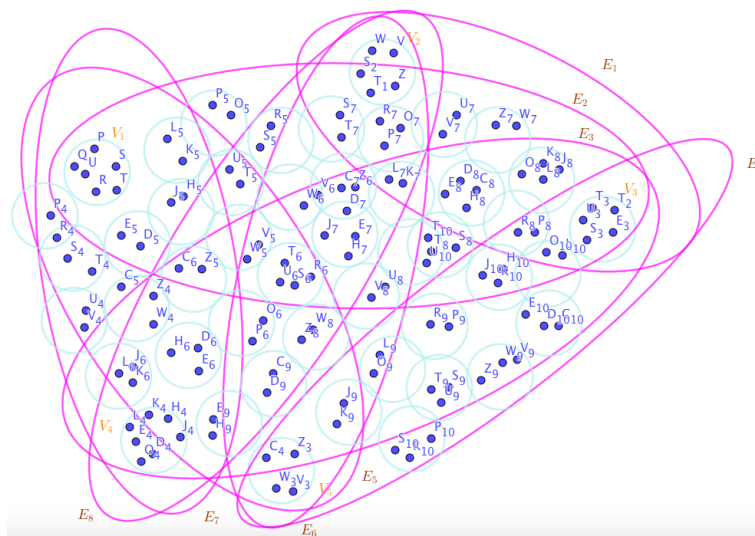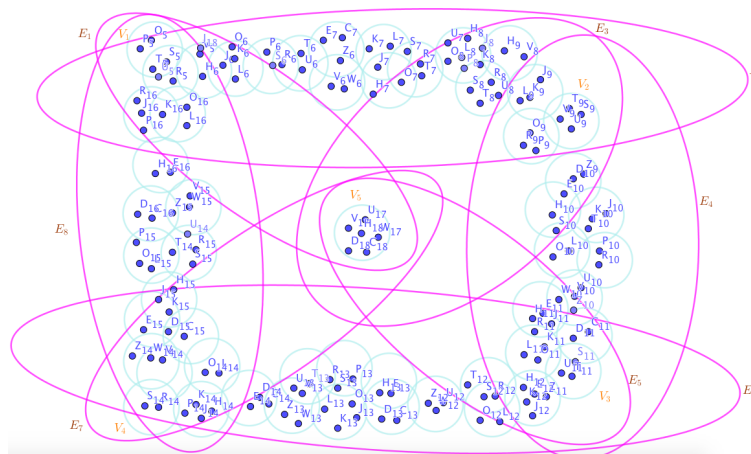
Figure 26. A SuperHyperWheel Associated to the Notions of SuperHyperForcing in the Example (8).

5. Results on Neutrosophic SuperHyperClasses

Proposition 22. *Assume a connected neutrosophic SuperHyperPath NSHP : (V, E). Then a neutrosophic SuperHyperForcing is a neutrosophic SuperHyperSet of the exterior SuperHyperVertices and the interior SuperHyperVertices with only one exception in the form of interior SuperHyperVertices from any given SuperHyperEdge with the minimum cardinality. A SuperHyperForcing has the minimum neutrosophic cardinality on all SuperHyperForcing has the number of all the SuperHyperVertices minus on the number of exterior SuperHyperParts plus one. Thus,*

$$
\begin{aligned}
Neutrosophic\ SuperHyperForcing = \{&The\ number\text{-}of\text{-}all\text{-}the\text{-}SuperHyperVertices\\
&\text{-}minus\text{-}on\text{-}the\text{-}number\text{-}of\text{-}exterior\text{-}SuperHyperParts\text{-}plus\text{-}one\ SuperHyperSets\ of\ the\\
&SuperHyperVertices\mid\ \min |the\ SuperHyperSets\ of\ the\ SuperHyperVertices\ with\ only\\
&one\ exception\ in\ the\ form\ of\ interior\ SuperHyperVertices\ from\ any\ given\\
&SuperHyperEdge.|_{neutrosophic\ cardinality\ amid\ those\ SuperHyperSets.}\}
\end{aligned}
$$

Where σ_i is the unary operation on the SuperHyperVertices of the SuperHyperGraph to assign the determinacy, the indeterminacy and the neutrality, for $i = 1, 2, 3$, respectively.

Proof. Assume a connected neutrosophic SuperHyperPath $NSHP : (V, E)$. Let a neutrosophic SuperHyperEdge has some neutrosophic SuperHyperVertices. Consider some extreme numbers of those neutrosophic SuperHyperVertices from that neutrosophic SuperHyperEdge excluding two unique neutrosophic SuperHyperVertices, belong to any given neutrosophic SuperHyperSet of the neutrosophic SuperHyperVertices. The neutrosophic SuperHyperSet S of black neutrosophic SuperHyperVertices (whereas neutrosophic SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white neutrosophic SuperHyperVertex is converted to a black neutrosophic SuperHyperVertex if it is the only white neutrosophic SuperHyperNeighbor of a black neutrosophic SuperHyperVertex but there are two white neutrosophic SuperHyperNeighbors outside implying there's no neutrosophic SuperHyperVertex to the neutrosophic SuperHyperSet S does the "the color-change rule". So it doesn't have the minimum neutrosophic SuperHyperCardinality of a neutrosophic SuperHyperSet S of black neutrosophic SuperHyperVertices (whereas neutrosophic SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of **"the color-change rule"**: a white neutrosophic SuperHyperVertex is converted to a black neutrosophic SuperHyperVertex if it is the only white neutrosophic SuperHyperNeighbor of a black neutrosophic SuperHyperVertex. Consider some extreme numbers of those neutrosophic SuperHyperVertices from that neutrosophic SuperHyperEdge, without any exclusion on some neutrosophic SuperHyperVertices,

belong to any given neutrosophic SuperHyperSet of the neutrosophic SuperHyperVertices. The neutrosophic SuperHyperSet S of black neutrosophic SuperHyperVertices (whereas neutrosophic SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white neutrosophic SuperHyperVertex is converted to a black neutrosophic SuperHyperVertex if it is the only white neutrosophic SuperHyperNeighbor of a black neutrosophic SuperHyperVertex but it implies it doesn't have the **minimum** neutrosophic SuperHyperCardinality of a neutrosophic SuperHyperSet S of black neutrosophic SuperHyperVertices (whereas neutrosophic SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white neutrosophic SuperHyperVertex is converted to a black neutrosophic SuperHyperVertex if it is the only white neutrosophic SuperHyperNeighbor of a black neutrosophic SuperHyperVertex. There's only one neutrosophic SuperHyperVertex outside the intended neutrosophic SuperHyperSet. Thus the obvious neutrosophic SuperHyperForcing is up. The obvious simple type-neutrosophic SuperHyperSet of the neutrosophic SuperHyperForcing is a neutrosophic SuperHyperSet excludes only one neutrosophic SuperHyperVertex in a connected neutrosophic SuperHyperPath $NSHP : (V, E)$. Thus all the following neutrosophic SuperHyperSets of neutrosophic SuperHyperVertices are the simple neutrosophic type-SuperHyperSet of the neutrosophic SuperHyperForcing. It's the contradiction to the neutrosophic SuperHyperSet S is a neutrosophic SuperHyperForcing. Thus any given neutrosophic SuperHyperSet of the neutrosophic SuperHyperVertices contains the number of those neutrosophic SuperHyperVertices from that neutrosophic SuperHyperEdge with some neutrosophic SuperHyperVertices less than excluding one unique neutrosophic SuperHyperVertex, isn't a neutrosophic SuperHyperForcing. Thus if a neutrosophic SuperHyperEdge has some neutrosophic SuperHyperVertices, then, with excluding one unique neutrosophic SuperHyperVertex, the all number of those neutrosophic SuperHyperVertices from that neutrosophic SuperHyperEdge belong to any neutrosophic SuperHyperForcing. Thus, in a connected neutrosophic SuperHyperPath $NSHP : (V, E)$, every neutrosophic SuperHyperEdge has only one unique neutrosophic SuperHyperVertex outside of neutrosophic SuperHyperForcing. In other words, every neutrosophic SuperHyperEdge has only one unique white neutrosophic SuperHyperVertex. In a connected neutrosophic SuperHyperPath $NSHP : (V, E)$, the any neutrosophic SuperHyperForcing only contains all interior neutrosophic SuperHyperVertices and all exterior neutrosophic SuperHyperVertices where any of them has one neutrosophic SuperHyperNeighbor out. Then a neutrosophic SuperHyperForcing is a neutrosophic SuperHyperSet of the exterior neutrosophic SuperHyperVertices and the interior neutrosophic SuperHyperVertices with only one exception in the form of interior neutrosophic SuperHyperVertices from any given neutrosophic SuperHyperEdge with the minimum neutrosophic cardinality. A neutrosophic SuperHyperForcing has the minimum neutrosophic cardinality on all neutrosophic SuperHyperForcing has the number of all the neutrosophic SuperHyperVertices minus on the number of exterior neutrosophic SuperHyperParts plus one. Thus,

$$
\begin{aligned}
Neutrosophic\ SuperHyperForcing = \{ &\text{The number-of-all-the-SuperHyperVertices} \\
&\text{-minus-on-the-number-of-exterior-SuperHyperParts-plus-one SuperHyperSets of the} \\
&\text{SuperHyperVertices} \mid \min \mid \text{the SuperHyperSets of the SuperHyperVertices with only} \\
&\text{one exception in the form of interior SuperHyperVertices from any given} \\
&\text{SuperHyperEdge.} \mid_{\text{neutrosophic cardinality amid those SuperHyperSets.}} \}
\end{aligned}
$$

Where σ_i is the unary operation on the SuperHyperVertices of the SuperHyperGraph to assign the determinacy, the indeterminacy and the neutrality, for $i = 1, 2, 3$, respectively.   □

Example 9. *In the Figure 27, the connected neutrosophic SuperHyperPath NSHP : (V, E), is highlighted and featured.*
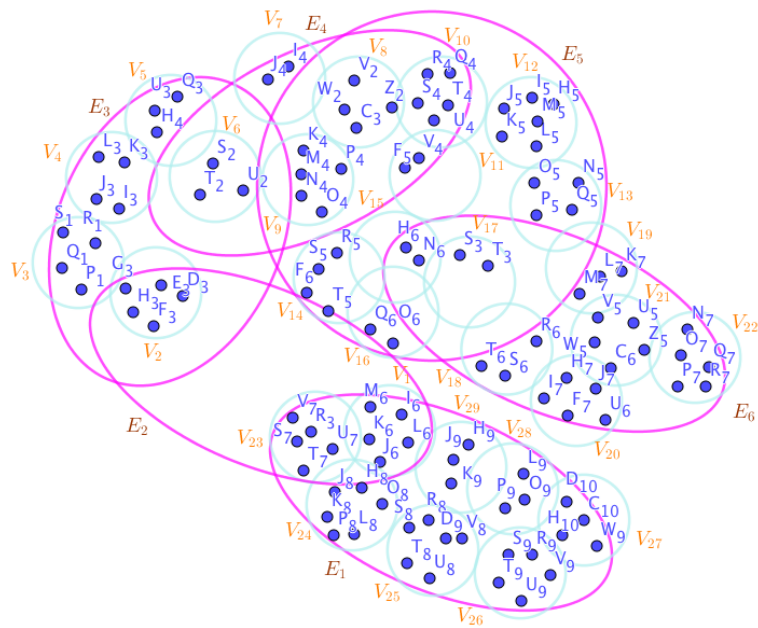
Figure 27. A Neutrosophic SuperHyperPath Associated to the Notions of SuperHyperForcing in the Example (9).

By using the Figure 27 and the Table 4, the neutrosophic SuperHyperPath is obtained.
The neutrosophic SuperHyperSet, $S = V \setminus \{V_{27}, V_3, V_7, V_{13}, V_{22}\}$ of the neutrosophic SuperHyperVertices of the connected neutrosophic SuperHyperPath $NSHP : (V, E)$, in the neutrosophic SuperHyperModel (27), is the neutrosophic SuperHyperForcing.

Table 4. The Values of Vertices, SuperVertices, Edges, HyperEdges, and SuperHyperEdges Belong to The Neutrosophic SuperHyperPath Mentioned in the Example (9).

The Values of The Vertices	The Number of Position in Alphabet
The Values of The SuperVertices	The Minimum Values of Its Vertices
The Values of The Edges	The Minimum Values of Its Vertices
The Values of The HyperEdges	The Minimum Values of Its Vertices
The Values of The SuperHyperEdges	The Minimum Values of Its Endpoints

Proposition 23. *Assume a connected neutrosophic SuperHyperCycle $NSHC : (V, E)$. Then a neutrosophic SuperHyperForcing is a neutrosophic SuperHyperSet of the exterior neutrosophic SuperHyperVertices and the interior neutrosophic SuperHyperVertices with only one exception in the form of interior neutrosophic SuperHyperVertices from any given neutrosophic SuperHyperEdge with the minimum neutrosophic cardinality. A neutrosophic SuperHyperForcing has the minimum neutrosophic cardinality on all neutrosophic SuperHyperForcing has the number of all the neutrosophic SuperHyperVertices minus on the number of exterior neutrosophic SuperHyperParts plus one. Thus,*

$$Neutrosophic\ SuperHyperForcing = \{The\ number\text{-}of\text{-}all\text{-}the\text{-}SuperHyperVertices$$
$$\text{-}minus\text{-}on\text{-}the\text{-}number\text{-}of\text{-}exterior\text{-}SuperHyperParts\ SuperHyperSets\ of\ the$$
$$SuperHyperVertices\mid \min\mid the\ SuperHyperSets\ of\ the\ SuperHyperVertices\ with\ only$$
$$one\ exception\ in\ the\ form\ of\ interior\ SuperHyperVertices\ from\ any\ given$$
$$SuperHyperEdge.\mid_{neutrosophic\ cardinality\ amid\ those\ SuperHyperSets.}\}$$

Where σ_i is the unary operation on the SuperHyperVertices of the SuperHyperGraph to assign the determinacy, the indeterminacy and the neutrality, for $i = 1, 2, 3$, respectively.

Proof. Assume a connected neutrosophic SuperHyperCycle $NSHC : (V, E)$. Let a neutrosophic SuperHyperEdge has some neutrosophic SuperHyperVertices. Consider some extreme numbers of those neutrosophic SuperHyperVertices from that neutrosophic SuperHyperEdge excluding two unique neutrosophic SuperHyperVertices, belong to any given neutrosophic SuperHyperSet of the neutrosophic SuperHyperVertices. The neutrosophic SuperHyperSet S of black neutrosophic SuperHyperVertices (whereas neutrosophic SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white neutrosophic SuperHyperVertex is converted to a black neutrosophic SuperHyperVertex if it is the only white neutrosophic SuperHyperNeighbor of a black neutrosophic SuperHyperVertex but there are two white neutrosophic SuperHyperNeighbors outside implying there's no neutrosophic SuperHyperVertex to the neutrosophic SuperHyperSet S does the "the color-change rule". So it doesn't have the minimum neutrosophic SuperHyperCardinality of a neutrosophic SuperHyperSet S of black neutrosophic SuperHyperVertices (whereas neutrosophic SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of **"the color-change rule"**: a white neutrosophic SuperHyperVertex is converted to a black neutrosophic SuperHyperVertex if it is the only white neutrosophic SuperHyperNeighbor of a black neutrosophic SuperHyperVertex. Consider some extreme numbers of those neutrosophic SuperHyperVertices from that neutrosophic SuperHyperEdge, without any exclusion on some neutrosophic SuperHyperVertices, belong to any given neutrosophic SuperHyperSet of the neutrosophic SuperHyperVertices. The neutrosophic SuperHyperSet S of black neutrosophic SuperHyperVertices (whereas neutrosophic SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white neutrosophic SuperHyperVertex is converted to a black neutrosophic SuperHyperVertex if it is the only white neutrosophic SuperHyperNeighbor of a black neutrosophic SuperHyperVertex but it implies it doesn't have the **minimum** neutrosophic SuperHyperCardinality of a neutrosophic SuperHyperSet S of black neutrosophic SuperHyperVertices (whereas neutrosophic SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white neutrosophic SuperHyperVertex is converted to a black neutrosophic SuperHyperVertex if it is the only white neutrosophic SuperHyperNeighbor of a black neutrosophic SuperHyperVertex. There's only one neutrosophic SuperHyperVertex outside the intended neutrosophic SuperHyperSet. Thus the obvious neutrosophic SuperHyperForcing is up. The obvious simple type-neutrosophic SuperHyperSet of the neutrosophic SuperHyperForcing is a neutrosophic SuperHyperSet excludes only one neutrosophic SuperHyperVertex in a connected neutrosophic SuperHyperCycle $NSHC : (V, E)$. Thus all the following neutrosophic SuperHyperSets of neutrosophic SuperHyperVertices are the simple neutrosophic type-SuperHyperSet of the neutrosophic SuperHyperForcing. It's the contradiction to the neutrosophic SuperHyperSet S is a neutrosophic SuperHyperForcing. Thus any given neutrosophic SuperHyperSet of the neutrosophic SuperHyperVertices contains the number of those neutrosophic SuperHyperVertices from that neutrosophic SuperHyperEdge with some neutrosophic SuperHyperVertices less than excluding one unique neutrosophic SuperHyperVertex, isn't a neutrosophic SuperHyperForcing. Thus if a neutrosophic SuperHyperEdge has some neutrosophic SuperHyperVertices, then, with excluding one unique neutrosophic SuperHyperVertex, the all number of those neutrosophic SuperHyperVertices from that neutrosophic SuperHyperEdge belong to any neutrosophic SuperHyperForcing. Thus, in a connected neutrosophic SuperHyperCycle $NSHC : (V, E)$, every neutrosophic SuperHyperEdge has only one unique neutrosophic SuperHyperVertex outside of neutrosophic SuperHyperForcing. In other words, every neutrosophic SuperHyperEdge has only one unique white neutrosophic SuperHyperVertex. In a connected neutrosophic SuperHyperCycle $NSHC : (V, E)$, the any neutrosophic SuperHyperForcing only contains all interior neutrosophic SuperHyperVertices and all exterior neutrosophic SuperHyperVertices where any of them has one neutrosophic SuperHyperNeighbor out. Then a neutrosophic SuperHyperForcing is a neutrosophic SuperHyperSet of the exterior neutrosophic SuperHyperVertices and the interior neutrosophic

SuperHyperVertices with only one exception in the form of interior neutrosophic SuperHyperVertices from any given neutrosophic SuperHyperEdge with the minimum neutrosophic cardinality. A neutrosophic SuperHyperForcing has the minimum neutrosophic cardinality on all neutrosophic SuperHyperForcing has the number of all the neutrosophic SuperHyperVertices minus on the number of exterior neutrosophic SuperHyperParts plus one. Thus,

$$
\begin{aligned}
Neutrosophic\ SuperHyperForcing = \{ &\text{The number-of-all-the-SuperHyperVertices} \\
&\text{-minus-on-the-number-of-exterior-SuperHyperParts SuperHyperSets of the} \\
&\text{SuperHyperVertices} \mid \min |\text{the SuperHyperSets of the SuperHyperVertices with only} \\
&\text{one exception in the form of interior SuperHyperVertices from any given} \\
&\text{SuperHyperEdge.}|_{\text{neutrosophic cardinality amid those SuperHyperSets.}} \}
\end{aligned}
$$

Where σ_i is the unary operation on the SuperHyperVertices of the SuperHyperGraph to assign the determinacy, the indeterminacy and the neutrality, for $i = 1, 2, 3$, respectively. □

Example 10. *In the Figure 28, the SuperHyperCycle is highlighted and featured.*
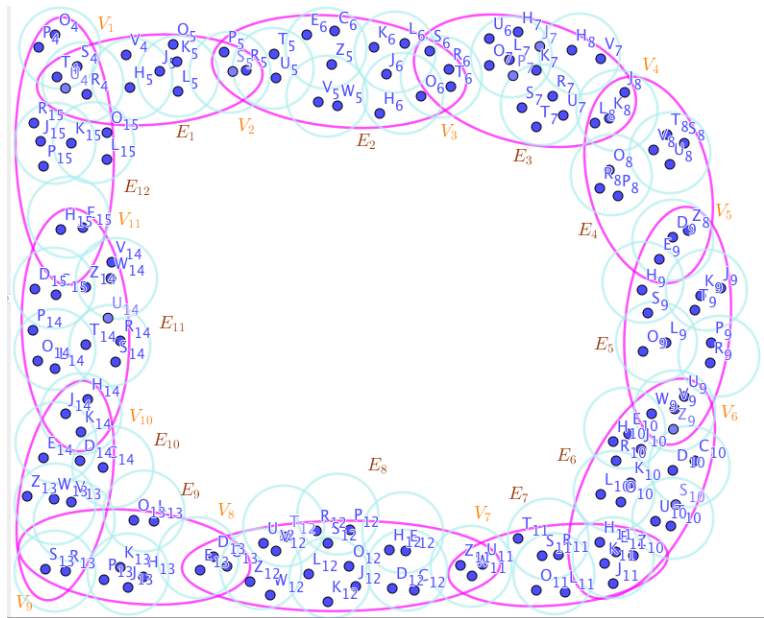
Figure 28. A Neutrosophic SuperHyperCycle Associated to the Notions of SuperHyperForcing in the Example (10).

By using the Figure 28 and the Table 5, the neutrosophic SuperHyperCycle is obtained.
The obtained neutrosophic SuperHyperSet, by the Algorithm in previous result, of the neutrosophic SuperHyperVertices of the connected neutrosophic SuperHyperCycle NSHC : (V, E), in the neutrosophic SuperHyperModel (22), is the neutrosophic SuperHyperForcing.

Table 5. The Values of Vertices, SuperVertices, Edges, HyperEdges, and SuperHyperEdges Belong to The Neutrosophic SuperHyperCycle Mentioned in the Example (10).

The Values of The Vertices	The Number of Position in Alphabet
The Values of The SuperVertices	The Minimum Values of Its Vertices
The Values of The Edges	The Minimum Values of Its Vertices
The Values of The HyperEdges	The Minimum Values of Its Vertices
The Values of The SuperHyperEdges	The Minimum Values of Its Endpoints

Proposition 24. *Assume a connected neutrosophic SuperHyperStar $NSHS : (V, E)$. Then a neutrosophic SuperHyperForcing is a neutrosophic SuperHyperSet of the exterior neutrosophic SuperHyperVertices and the interior neutrosophic SuperHyperVertices with only one exception in the form of interior neutrosophic SuperHyperVertices from any given neutrosophic SuperHyperEdge with the minimum neutrosophic cardinality. A neutrosophic SuperHyperForcing has the minimum neutrosophic cardinality on all neutrosophic SuperHyperForcing has the number of all the neutrosophic SuperHyperVertices minus on the neutrosophic cardinality of the second neutrosophic SuperHyperPart plus one. Thus,*

$$
\begin{aligned}
Neutrosophic\ SuperHyperForcing = \{ & The\ number\text{-}of\text{-}all\text{-}the\text{-}SuperHyperVertices \\
& \text{-}minus\text{-}on\text{-}the\text{-}cardinality\text{-}of\text{-}second\text{-}SuperHyperPart\text{-}plus\text{-}one\ SuperHyperSets\ of\ the} \\
& SuperHyperVertices\ |\ \min\ |the\ SuperHyperSets\ of\ the\ SuperHyperVertices\ with\ only \\
& one\ exception\ in\ the\ form\ of\ interior\ SuperHyperVertices\ from\ any\ given \\
& SuperHyperEdge.|_{neutrosophic\ cardinality\ amid\ those\ SuperHyperSets.} \}
\end{aligned}
$$

Where σ_i is the unary operation on the SuperHyperVertices of the SuperHyperGraph to assign the determinacy, the indeterminacy and the neutrality, for $i = 1, 2, 3$, respectively.

Proof. Assume a connected neutrosophic SuperHyperStar $NSHS : (V, E)$. Let a neutrosophic SuperHyperEdge has some neutrosophic SuperHyperVertices. Consider some extreme numbers of those neutrosophic SuperHyperVertices from that neutrosophic SuperHyperEdge excluding two unique neutrosophic SuperHyperVertices, belong to any given neutrosophic SuperHyperSet of the neutrosophic SuperHyperVertices. The neutrosophic SuperHyperSet S of black neutrosophic SuperHyperVertices (whereas neutrosophic SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white neutrosophic SuperHyperVertex is converted to a black neutrosophic SuperHyperVertex if it is the only white neutrosophic SuperHyperNeighbor of a black neutrosophic SuperHyperVertex but there are two white neutrosophic SuperHyperNeighbors outside implying there's no neutrosophic SuperHyperVertex to the neutrosophic SuperHyperSet S does the "the color-change rule". So it doesn't have the minimum neutrosophic SuperHyperCardinality of a neutrosophic SuperHyperSet S of black neutrosophic SuperHyperVertices (whereas neutrosophic SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of **"the color-change rule"**: a white neutrosophic SuperHyperVertex is converted to a black neutrosophic SuperHyperVertex if it is the only white neutrosophic SuperHyperNeighbor of a black neutrosophic SuperHyperVertex. Consider some extreme numbers of those neutrosophic SuperHyperVertices from that neutrosophic SuperHyperEdge, without any exclusion on some neutrosophic SuperHyperVertices, belong to any given neutrosophic SuperHyperSet of the neutrosophic SuperHyperVertices. The neutrosophic SuperHyperSet S of black neutrosophic SuperHyperVertices (whereas neutrosophic SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white neutrosophic SuperHyperVertex is converted to a black neutrosophic SuperHyperVertex if it is the only white neutrosophic SuperHyperNeighbor of a black neutrosophic SuperHyperVertex but it implies it doesn't have the **minimum** neutrosophic SuperHyperCardinality of a neutrosophic SuperHyperSet S of black neutrosophic SuperHyperVertices (whereas neutrosophic SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white neutrosophic SuperHyperVertex is converted to a black neutrosophic SuperHyperVertex if it is the only white neutrosophic SuperHyperNeighbor of a black neutrosophic SuperHyperVertex. There's only one neutrosophic SuperHyperVertex outside the intended neutrosophic SuperHyperSet. Thus the obvious neutrosophic SuperHyperForcing is up. The obvious simple type-neutrosophic SuperHyperSet of the neutrosophic SuperHyperForcing is a neutrosophic SuperHyperSet excludes only one neutrosophic SuperHyperVertex in a connected neutrosophic SuperHyperStar $NSHS : (V, E)$. Thus

all the following neutrosophic SuperHyperSets of neutrosophic SuperHyperVertices are the simple neutrosophic type-SuperHyperSet of the neutrosophic SuperHyperForcing. It's the contradiction to the neutrosophic SuperHyperSet S is a neutrosophic SuperHyperForcing. Thus any given neutrosophic SuperHyperSet of the neutrosophic SuperHyperVertices contains the number of those neutrosophic SuperHyperVertices from that neutrosophic SuperHyperEdge with some neutrosophic SuperHyperVertices less than excluding one unique neutrosophic SuperHyperVertex, isn't a neutrosophic SuperHyperForcing. Thus if a neutrosophic SuperHyperEdge has some neutrosophic SuperHyperVertices, then, with excluding one unique neutrosophic SuperHyperVertex, the all number of those neutrosophic SuperHyperVertices from that neutrosophic SuperHyperEdge belong to any neutrosophic SuperHyperForcing. Thus, in a connected neutrosophic SuperHyperStar $NSHS : (V, E)$, every neutrosophic SuperHyperEdge has only one unique neutrosophic SuperHyperVertex outside of neutrosophic SuperHyperForcing. In other words, every neutrosophic SuperHyperEdge has only one unique white neutrosophic SuperHyperVertex. In a connected neutrosophic SuperHyperStar $NSHS : (V, E)$, the any neutrosophic SuperHyperForcing only contains all interior neutrosophic SuperHyperVertices and all exterior neutrosophic SuperHyperVertices where any of them has one neutrosophic SuperHyperNeighbor out. Then a neutrosophic SuperHyperForcing is a neutrosophic SuperHyperSet of the exterior neutrosophic SuperHyperVertices and the interior neutrosophic SuperHyperVertices with only one exception in the form of interior neutrosophic SuperHyperVertices from any given neutrosophic SuperHyperEdge with the minimum neutrosophic cardinality. A neutrosophic SuperHyperForcing has the minimum neutrosophic cardinality on all neutrosophic SuperHyperForcing has the number of all the neutrosophic SuperHyperVertices minus on the neutrosophic cardinality of the second neutrosophic SuperHyperPart plus one. Thus,

$$
\begin{aligned}
Neutrosophic\ SuperHyperForcing = & \{\text{The number-of-all-the-SuperHyperVertices} \\
& \text{-minus-on-the-cardinality-of-second-SuperHyperPart-plus-one SuperHyperSets of the} \\
& \text{SuperHyperVertices} \mid \min |\text{the SuperHyperSets of the SuperHyperVertices with only} \\
& \text{one exception in the form of interior SuperHyperVertices from any given} \\
& \text{SuperHyperEdge.}|_{\text{neutrosophic cardinality amid those SuperHyperSets.}} \}
\end{aligned}
$$

Where σ_i is the unary operation on the SuperHyperVertices of the SuperHyperGraph to assign the determinacy, the indeterminacy and the neutrality, for $i = 1, 2, 3$, respectively. □

Example 11. *In the Figure 29, the SuperHyperStar is highlighted and featured.*

Figure 29. A Neutrosophic SuperHyperStar Associated to the Notions of SuperHyperForcing in the Example (11).

By using the Figure 29 and the Table 6, the neutrosophic SuperHyperStar is obtained.
The obtained neutrosophic SuperHyperSet, by the Algorithm in previous result, of the neutrosophic SuperHyperVertices of the connected neutrosophic SuperHyperStar NSHS : (V, E), in the neutrosophic SuperHyperModel (29), is the neutrosophic SuperHyperForcing.

Table 6. The Values of Vertices, SuperVertices, Edges, HyperEdges, and SuperHyperEdges Belong to The Neutrosophic SuperHyperStar Mentioned in the Example (11).

The Values of The Vertices	The Number of Position in Alphabet
The Values of The SuperVertices	The Minimum Values of Its Vertices
The Values of The Edges	The Minimum Values of Its Vertices
The Values of The HyperEdges	The Minimum Values of Its Vertices
The Values of The SuperHyperEdges	The Minimum Values of Its Endpoints

Proposition 25. *Assume a connected neutrosophic SuperHyperBipartite NSHB : (V, E). Then a neutrosophic SuperHyperForcing is a neutrosophic SuperHyperSet of the exterior neutrosophic SuperHyperVertices and the interior neutrosophic SuperHyperVertices with only one exception in the form of interior neutrosophic SuperHyperVertices from any given neutrosophic SuperHyperEdge with the minimum neutrosophic cardinality. A neutrosophic SuperHyperForcing has the minimum neutrosophic cardinality on all neutrosophic SuperHyperForcing has the number of all the neutrosophic SuperHyperVertices minus on the neutrosophic cardinality of the first neutrosophic SuperHyperPart plus the second neutrosophic SuperHyperPart. Thus,*

$$
\begin{aligned}
Neutrosophic\ SuperHyperForcing = &\{\textit{The number-of-all-the-SuperHyperVertices}\\
&\textit{-minus-on-the-cardinality-of-first-SuperHyperPart-plus-second-SuperHyperPart}\\
&\textit{SuperHyperSets of the SuperHyperVertices} \mid \ \min |\textit{the SuperHyperSets of the}\\
&\textit{SuperHyperVertices with only one exception in the form of interior}\\
&\ \textit{SuperHyperVertices from any given SuperHyperEdge.}\\
&|_{\textit{neutrosophic cardinality amid those SuperHyperSets.}}\}
\end{aligned}
$$

Where σ_i is the unary operation on the SuperHyperVertices of the SuperHyperGraph to assign the determinacy, the indeterminacy and the neutrality, for $i = 1, 2, 3$, respectively.

Proof. Assume a connected neutrosophic SuperHyperBipartite $NSHB : (V, E)$. Let a neutrosophic SuperHyperEdge has some neutrosophic SuperHyperVertices. Consider some extreme numbers of those neutrosophic SuperHyperVertices from that neutrosophic SuperHyperEdge excluding two unique neutrosophic SuperHyperVertices, belong to any given neutrosophic SuperHyperSet of the neutrosophic SuperHyperVertices. The neutrosophic SuperHyperSet S of black neutrosophic SuperHyperVertices (whereas neutrosophic SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white neutrosophic SuperHyperVertex is converted to a black neutrosophic SuperHyperVertex if it is the only white neutrosophic SuperHyperNeighbor of a black neutrosophic SuperHyperVertex but there are two white neutrosophic SuperHyperNeighbors outside implying there's no neutrosophic SuperHyperVertex to the neutrosophic SuperHyperSet S does the "the color-change rule". So it doesn't have the minimum neutrosophic SuperHyperCardinality of a neutrosophic SuperHyperSet S of black neutrosophic SuperHyperVertices (whereas neutrosophic SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of **"the color-change rule"**: a white neutrosophic SuperHyperVertex is converted to a black neutrosophic SuperHyperVertex if it is the only white neutrosophic SuperHyperNeighbor of a black neutrosophic SuperHyperVertex. Consider some extreme numbers of those neutrosophic SuperHyperVertices from that neutrosophic SuperHyperEdge, without any exclusion on some neutrosophic SuperHyperVertices, belong to any given neutrosophic SuperHyperSet of the neutrosophic SuperHyperVertices. The neutrosophic SuperHyperSet S of black neutrosophic SuperHyperVertices (whereas neutrosophic SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white neutrosophic SuperHyperVertex is converted to a black neutrosophic SuperHyperVertex if it is the only white neutrosophic SuperHyperNeighbor of a black neutrosophic SuperHyperVertex but it implies it doesn't have the **minimum** neutrosophic SuperHyperCardinality of a neutrosophic SuperHyperSet S of black neutrosophic SuperHyperVertices (whereas neutrosophic SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white neutrosophic SuperHyperVertex is converted to a black neutrosophic SuperHyperVertex if it is the only white neutrosophic SuperHyperNeighbor of a black neutrosophic SuperHyperVertex. There's only one neutrosophic SuperHyperVertex outside the intended neutrosophic SuperHyperSet. Thus the obvious neutrosophic SuperHyperForcing is up. The obvious simple type-neutrosophic SuperHyperSet of the neutrosophic SuperHyperForcing is a neutrosophic SuperHyperSet excludes only one neutrosophic SuperHyperVertex in a connected neutrosophic SuperHyperBipartite $NSHB : (V, E)$. Thus all the following neutrosophic SuperHyperSets of neutrosophic SuperHyperVertices are the simple neutrosophic type-SuperHyperSet of the neutrosophic SuperHyperForcing. It's the contradiction to the neutrosophic SuperHyperSet S is a neutrosophic SuperHyperForcing. Thus any given neutrosophic SuperHyperSet of the neutrosophic SuperHyperVertices contains the number of those neutrosophic SuperHyperVertices from that neutrosophic SuperHyperEdge with some neutrosophic SuperHyperVertices less than excluding one unique neutrosophic SuperHyperVertex, isn't a neutrosophic SuperHyperForcing. Thus if a neutrosophic SuperHyperEdge has some neutrosophic SuperHyperVertices, then, with excluding one unique neutrosophic SuperHyperVertex, the all number of those neutrosophic SuperHyperVertices from that neutrosophic SuperHyperEdge belong to any neutrosophic SuperHyperForcing. Thus, in a connected neutrosophic SuperHyperBipartite $NSHB : (V, E)$, every neutrosophic SuperHyperEdge has only one unique neutrosophic SuperHyperVertex outside of neutrosophic SuperHyperForcing. In other words, every neutrosophic SuperHyperEdge has only one unique white neutrosophic SuperHyperVertex. In a connected neutrosophic SuperHyperBipartite $NSHB : (V, E)$, the any neutrosophic SuperHyperForcing only contains all

interior neutrosophic SuperHyperVertices and all exterior neutrosophic SuperHyperVertices where any of them has one neutrosophic SuperHyperNeighbor out. Then a neutrosophic SuperHyperForcing is a neutrosophic SuperHyperSet of the exterior neutrosophic SuperHyperVertices and the interior neutrosophic SuperHyperVertices with only one exception in the form of interior neutrosophic SuperHyperVertices from any given neutrosophic SuperHyperEdge with the minimum neutrosophic cardinality. A neutrosophic SuperHyperForcing has the minimum neutrosophic cardinality on all neutrosophic SuperHyperForcing has the number of all the neutrosophic SuperHyperVertices minus on the neutrosophic cardinality of the first neutrosophic SuperHyperPart plus the second neutrosophic SuperHyperPart. Thus,

$$\begin{aligned} Neutrosophic\ SuperHyperForcing = \{ &\text{The number-of-all-the-SuperHyperVertices} \\ &\text{-minus-on-the-cardinality-of-first-SuperHyperPart-plus-second-SuperHyperPart} \\ &\text{SuperHyperSets of the SuperHyperVertices} \mid \min |\text{the SuperHyperSets of the}} \\ &\text{SuperHyperVertices with only one exception in the form of interior}} \\ &\text{SuperHyperVertices from any given SuperHyperEdge.}} \\ &|\text{\small neutrosophic cardinality amid those SuperHyperSets.}} \} \end{aligned}$$

Where σ_i is the unary operation on the SuperHyperVertices of the SuperHyperGraph to assign the determinacy, the indeterminacy and the neutrality, for $i = 1, 2, 3$, respectively. □

Example 12. *In Figure 30, the SuperHyperBipartite NSHB : (V, E), is highlighted and featured.*
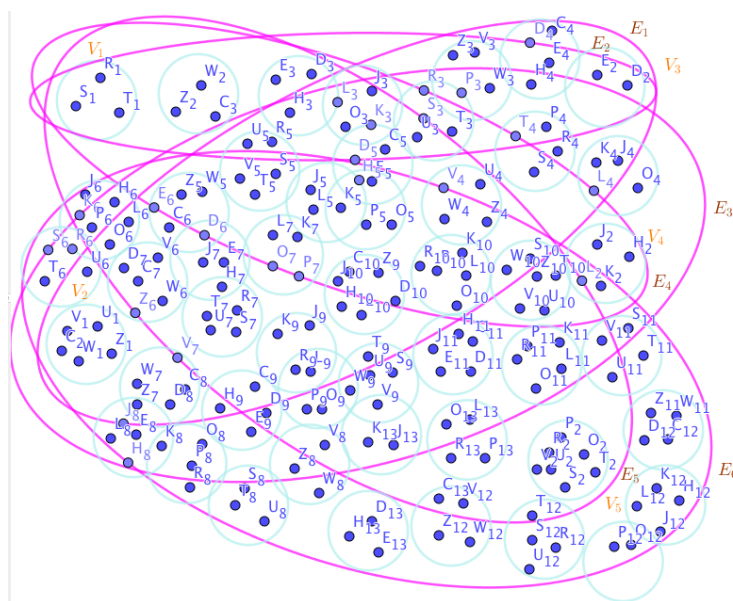

Figure 30. A Neutrosophic SuperHyperBipartite *NSHB* : (V, E), Associated to the Notions of SuperHyperForcing in the Example (12).

By using the Figure 30 and the Table 7, the neutrosophic SuperHyperBipartite NSHB : (V, E), is obtained. The obtained neutrosophic SuperHyperSet, by the Algorithm in previous result, of the neutrosophic SuperHyperVertices of the connected neutrosophic SuperHyperBipartite NSHB : (V, E), in the neutrosophic SuperHyperModel (30), is the neutrosophic SuperHyperForcing.

Table 7. The Values of Vertices, SuperVertices, Edges, HyperEdges, and SuperHyperEdges Belong to The Neutrosophic SuperHyperBipartite Mentioned in the Example (12).

The Values of The Vertices	The Number of Position in Alphabet
The Values of The SuperVertices	The Minimum Values of Its Vertices
The Values of The Edges	The Minimum Values of Its Vertices
The Values of The HyperEdges	The Minimum Values of Its Vertices
The Values of The SuperHyperEdges	The Minimum Values of Its Endpoints

Proposition 26. *Assume a connected neutrosophic SuperHyperMultipartite $NSHM$: (V, E). Then a neutrosophic SuperHyperForcing is a neutrosophic SuperHyperSet of the exterior neutrosophic SuperHyperVertices and the interior neutrosophic SuperHyperVertices with only one exception in the form of interior neutrosophic SuperHyperVertices from any given neutrosophic SuperHyperEdge with the minimum neutrosophic cardinality. A neutrosophic SuperHyperForcing has the minimum neutrosophic cardinality on all neutrosophic SuperHyperForcing has the number of all the neutrosophic SuperHyperVertices minus on the neutrosophic number of the summation on the neutrosophic cardinality of the neutrosophic SuperHyperParts. Thus,*

$$
\begin{aligned}
Neutrosophic\ SuperHyperForcing = \{&\textit{The number-of-all-the-SuperHyperVertices}\\
&\textit{-minus-on-the-summation-on-cardinalities-of-all-SuperHyperParts}\\
&\textit{SuperHyperSets of the SuperHyperVertices} \mid \min \mid \textit{the SuperHyperSets of the}\\
&\textit{SuperHyperVertices with only one exception in the form of interior}\\
&\textit{SuperHyperVertices from any given SuperHyperEdge.}\\
&\mid \textit{neutrosophic cardinality amid those SuperHyperSets.}\}
\end{aligned}
$$

Where σ_i is the unary operation on the SuperHyperVertices of the SuperHyperGraph to assign the determinacy, the indeterminacy and the neutrality, for $i = 1, 2, 3$, respectively.

Proof. Assume a connected neutrosophic SuperHyperMultipartite $NSHM$: (V, E). Let a neutrosophic SuperHyperEdge has some neutrosophic SuperHyperVertices. Consider some extreme numbers of those neutrosophic SuperHyperVertices from that neutrosophic SuperHyperEdge excluding two unique neutrosophic SuperHyperVertices, belong to any given neutrosophic SuperHyperSet of the neutrosophic SuperHyperVertices. The neutrosophic SuperHyperSet S of black neutrosophic SuperHyperVertices (whereas neutrosophic SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white neutrosophic SuperHyperVertex is converted to a black neutrosophic SuperHyperVertex if it is the only white neutrosophic SuperHyperNeighbor of a black neutrosophic SuperHyperVertex but there are two white neutrosophic SuperHyperNeighbors outside implying there's no neutrosophic SuperHyperVertex to the neutrosophic SuperHyperSet S does the "the color-change rule". So it doesn't have the minimum neutrosophic SuperHyperCardinality of a neutrosophic SuperHyperSet S of black neutrosophic SuperHyperVertices (whereas neutrosophic SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of **"the color-change rule"**: a white neutrosophic SuperHyperVertex is converted to a black neutrosophic SuperHyperVertex if it is the only white neutrosophic SuperHyperNeighbor of a black neutrosophic SuperHyperVertex. Consider some extreme numbers of those neutrosophic SuperHyperVertices from that neutrosophic SuperHyperEdge, without any exclusion on some neutrosophic SuperHyperVertices, belong to any given neutrosophic SuperHyperSet of the neutrosophic SuperHyperVertices. The neutrosophic SuperHyperSet S of black neutrosophic SuperHyperVertices (whereas neutrosophic SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white neutrosophic SuperHyperVertex is converted to a black neutrosophic SuperHyperVertex if it is the only white neutrosophic SuperHyperNeighbor of

a black neutrosophic SuperHyperVertex but it implies it doesn't have the **minimum** neutrosophic SuperHyperCardinality of a neutrosophic SuperHyperSet S of black neutrosophic SuperHyperVertices (whereas neutrosophic SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white neutrosophic SuperHyperVertex is converted to a black neutrosophic SuperHyperVertex if it is the only white neutrosophic SuperHyperNeighbor of a black neutrosophic SuperHyperVertex. There's only one neutrosophic SuperHyperVertex outside the intended neutrosophic SuperHyperSet. Thus the obvious neutrosophic SuperHyperForcing is up. The obvious simple type-neutrosophic SuperHyperSet of the neutrosophic SuperHyperForcing is a neutrosophic SuperHyperSet excludes only one neutrosophic SuperHyperVertex in a connected neutrosophic SuperHyperMultipartite $NSHM$: (V, E). Thus all the following neutrosophic SuperHyperSets of neutrosophic SuperHyperVertices are the simple neutrosophic type-SuperHyperSet of the neutrosophic SuperHyperForcing. It's the contradiction to the neutrosophic SuperHyperSet S is a neutrosophic SuperHyperForcing. Thus any given neutrosophic SuperHyperSet of the neutrosophic SuperHyperVertices contains the number of those neutrosophic SuperHyperVertices from that neutrosophic SuperHyperEdge with some neutrosophic SuperHyperVertices less than excluding one unique neutrosophic SuperHyperVertex, isn't a neutrosophic SuperHyperForcing. Thus if a neutrosophic SuperHyperEdge has some neutrosophic SuperHyperVertices, then, with excluding one unique neutrosophic SuperHyperVertex, the all number of those neutrosophic SuperHyperVertices from that neutrosophic SuperHyperEdge belong to any neutrosophic SuperHyperForcing. Thus, in a connected neutrosophic SuperHyperMultipartite $NSHM$: (V, E), every neutrosophic SuperHyperEdge has only one unique neutrosophic SuperHyperVertex outside of neutrosophic SuperHyperForcing. In other words, every neutrosophic SuperHyperEdge has only one unique white neutrosophic SuperHyperVertex. In a connected neutrosophic SuperHyperMultipartite $NSHM$: (V, E), the any neutrosophic SuperHyperForcing only contains all interior neutrosophic SuperHyperVertices and all exterior neutrosophic SuperHyperVertices where any of them has one neutrosophic SuperHyperNeighbor out. Then a neutrosophic SuperHyperForcing is a neutrosophic SuperHyperSet of the exterior neutrosophic SuperHyperVertices and the interior neutrosophic SuperHyperVertices with only one exception in the form of interior neutrosophic SuperHyperVertices from any given neutrosophic SuperHyperEdge with the minimum neutrosophic cardinality. A neutrosophic SuperHyperForcing has the minimum neutrosophic cardinality on all neutrosophic SuperHyperForcing has the number of all the neutrosophic SuperHyperVertices minus on the neutrosophic number of the summation on the neutrosophic cardinality of the neutrosophic SuperHyperParts. Thus,

$$
\begin{aligned}
Neutrosophic\ SuperHyperForcing = \{ & \text{The number-of-all-the-SuperHyperVertices} \\
& \text{-minus-on-the-summation-on-cardinalities-of-all-SuperHyperParts} \\
& \text{SuperHyperSets of the SuperHyperVertices} \mid \min |\text{the SuperHyperSets of the}} \\
& \text{SuperHyperVertices with only one exception in the form of interior} \\
& \text{SuperHyperVertices from any given SuperHyperEdge.} \\
& |\text{neutrosophic cardinality amid those SuperHyperSets.} \}
\end{aligned}
$$

Where σ_i is the unary operation on the SuperHyperVertices of the SuperHyperGraph to assign the determinacy, the indeterminacy and the neutrality, for $i = 1, 2, 3$, respectively. □

Example 13. *In Figure 31, the SuperHyperMultipartite NSHM : (V, E), is highlighted and featured.*
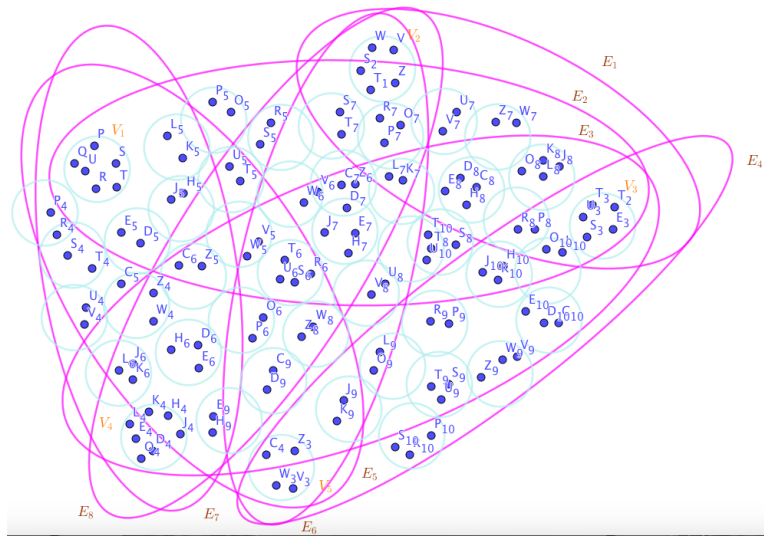
Figure 31. A Neutrosophic SuperHyperMultipartite $NSHM : (V, E)$, Associated to the Notions of SuperHyperForcing in the Example (13).

By using the Figure 31 and the Table 8, the neutrosophic SuperHyperMultipartite $NSHM : (V, E)$, is obtained.

The obtained neutrosophic SuperHyperSet, by the Algorithm in previous result, of the neutrosophic SuperHyperVertices of the connected neutrosophic SuperHyperMultipartite $NSHM : (V, E)$, in the neutrosophic SuperHyperModel (31), is the neutrosophic SuperHyperForcing.

Table 8. The Values of Vertices, SuperVertices, Edges, HyperEdges, and SuperHyperEdges Belong to The Neutrosophic SuperHyperMultipartite $NSHM : (V, E)$, Mentioned in the Example (13).

The Values of The Vertices	The Number of Position in Alphabet
The Values of The SuperVertices	The Minimum Values of Its Vertices
The Values of The Edges	The Minimum Values of Its Vertices
The Values of The HyperEdges	The Minimum Values of Its Vertices
The Values of The SuperHyperEdges	The Minimum Values of Its Endpoints

Proposition 27. *Assume a connected neutrosophic SuperHyperWheel $NSHW : (V, E)$. Then a neutrosophic SuperHyperForcing is a neutrosophic SuperHyperSet of the exterior neutrosophic SuperHyperVertices and the interior neutrosophic SuperHyperVertices with only one exception in the form of interior neutrosophic SuperHyperVertices from any given neutrosophic SuperHyperEdge with the minimum neutrosophic cardinality. A neutrosophic SuperHyperForcing has the minimum neutrosophic cardinality on all neutrosophic SuperHyperForcing has the number of all the neutrosophic SuperHyperVertices minus the number of all the neutrosophic SuperHyperEdges. Thus,*

$$
\begin{aligned}
\textit{Neutrosophic SuperHyperForcing} = \{&\textit{The number-of-all-the-SuperHyperVertices}\\
&\textit{-minus-the-number-of-all-the-SuperHyperEdges SuperHyperSets of the}\\
&\textit{SuperHyperVertices} \mid \min |\textit{the SuperHyperSets of the SuperHyperVertices with only}\\
&\textit{one exception in the form of interior SuperHyperVertices from any given}\\
&\textit{SuperHyperEdge.}|_{\textit{neutrosophic cardinality amid those SuperHyperSets.}}\}
\end{aligned}
$$

Where σ_i is the unary operation on the SuperHyperVertices of the SuperHyperGraph to assign the determinacy, the indeterminacy and the neutrality, for $i = 1, 2, 3$, respectively.

Proof. Assume a connected neutrosophic SuperHyperWheel $NSHW : (V, E)$. Let a neutrosophic SuperHyperEdge has some neutrosophic SuperHyperVertices. Consider some extreme numbers of

those neutrosophic SuperHyperVertices from that neutrosophic SuperHyperEdge excluding two unique neutrosophic SuperHyperVertices, belong to any given neutrosophic SuperHyperSet of the neutrosophic SuperHyperVertices. The neutrosophic SuperHyperSet S of black neutrosophic SuperHyperVertices (whereas neutrosophic SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white neutrosophic SuperHyperVertex is converted to a black neutrosophic SuperHyperVertex if it is the only white neutrosophic SuperHyperNeighbor of a black neutrosophic SuperHyperVertex but there are two white neutrosophic SuperHyperNeighbors outside implying there's no neutrosophic SuperHyperVertex to the neutrosophic SuperHyperSet S does the "the color-change rule". So it doesn't have the minimum neutrosophic SuperHyperCardinality of a neutrosophic SuperHyperSet S of black neutrosophic SuperHyperVertices (whereas neutrosophic SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of **"the color-change rule"**: a white neutrosophic SuperHyperVertex is converted to a black neutrosophic SuperHyperVertex if it is the only white neutrosophic SuperHyperNeighbor of a black neutrosophic SuperHyperVertex. Consider some extreme numbers of those neutrosophic SuperHyperVertices from that neutrosophic SuperHyperEdge, without any exclusion on some neutrosophic SuperHyperVertices, belong to any given neutrosophic SuperHyperSet of the neutrosophic SuperHyperVertices. The neutrosophic SuperHyperSet S of black neutrosophic SuperHyperVertices (whereas neutrosophic SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white neutrosophic SuperHyperVertex is converted to a black neutrosophic SuperHyperVertex if it is the only white neutrosophic SuperHyperNeighbor of a black neutrosophic SuperHyperVertex but it implies it doesn't have the **minimum** neutrosophic SuperHyperCardinality of a neutrosophic SuperHyperSet S of black neutrosophic SuperHyperVertices (whereas neutrosophic SuperHyperVertices in $V(G) \setminus S$ are colored white) such that $V(G)$ is turned black after finitely many applications of "the color-change rule": a white neutrosophic SuperHyperVertex is converted to a black neutrosophic SuperHyperVertex if it is the only white neutrosophic SuperHyperNeighbor of a black neutrosophic SuperHyperVertex. There's only one neutrosophic SuperHyperVertex outside the intended neutrosophic SuperHyperSet. Thus the obvious neutrosophic SuperHyperForcing is up. The obvious simple type-neutrosophic SuperHyperSet of the neutrosophic SuperHyperForcing is a neutrosophic SuperHyperSet excludes only one neutrosophic SuperHyperVertex in a connected neutrosophic SuperHyperWheel $NSHW : (V, E)$. Thus all the following neutrosophic SuperHyperSets of neutrosophic SuperHyperVertices are the simple neutrosophic type-SuperHyperSet of the neutrosophic SuperHyperForcing. It's the contradiction to the neutrosophic SuperHyperSet S is a neutrosophic SuperHyperForcing. Thus any given neutrosophic SuperHyperSet of the neutrosophic SuperHyperVertices contains the number of those neutrosophic SuperHyperVertices from that neutrosophic SuperHyperEdge with some neutrosophic SuperHyperVertices less than excluding one unique neutrosophic SuperHyperVertex, isn't a neutrosophic SuperHyperForcing. Thus if a neutrosophic SuperHyperEdge has some neutrosophic SuperHyperVertices, then, with excluding one unique neutrosophic SuperHyperVertex, the all number of those neutrosophic SuperHyperVertices from that neutrosophic SuperHyperEdge belong to any neutrosophic SuperHyperForcing. Thus, in a connected neutrosophic SuperHyperWheel $NSHW : (V, E)$, every neutrosophic SuperHyperEdge has only one unique neutrosophic SuperHyperVertex outside of neutrosophic SuperHyperForcing. In other words, every neutrosophic SuperHyperEdge has only one unique white neutrosophic SuperHyperVertex. In a connected neutrosophic SuperHyperWheel $NSHW : (V, E)$, the any neutrosophic SuperHyperForcing only contains all interior neutrosophic SuperHyperVertices and all exterior neutrosophic SuperHyperVertices where any of them has one neutrosophic SuperHyperNeighbor out. Then a neutrosophic SuperHyperForcing is a neutrosophic SuperHyperSet of the exterior neutrosophic SuperHyperVertices and the interior neutrosophic SuperHyperVertices with only one exception in the form of interior neutrosophic SuperHyperVertices from any given neutrosophic SuperHyperEdge with the minimum neutrosophic

cardinality. A neutrosophic SuperHyperForcing has the minimum neutrosophic cardinality on all neutrosophic SuperHyperForcing has the number of all the neutrosophic SuperHyperVertices minus the number of all the neutrosophic SuperHyperEdges. Thus,

$$
\begin{aligned}
\textit{Neutrosophic SuperHyperForcing} = \{ &\text{The number-of-all-the-SuperHyperVertices} \\
&\text{-minus-the-number-of-all-the-SuperHyperEdges SuperHyperSets of the} \\
&\text{SuperHyperVertices} \mid \min | \text{the SuperHyperSets of the SuperHyperVertices with only} \\
&\text{one exception in the form of interior SuperHyperVertices from any given} \\
&\text{SuperHyperEdge.}|_{\text{neutrosophic cardinality amid those SuperHyperSets.}} \}
\end{aligned}
$$

Where σ_i is the unary operation on the SuperHyperVertices of the SuperHyperGraph to assign the determinacy, the indeterminacy and the neutrality, for $i = 1, 2, 3$, respectively. □

Example 14. *In the Figure 32, the SuperHyperWheel $NSHW : (V, E)$, is highlighted and featured.*
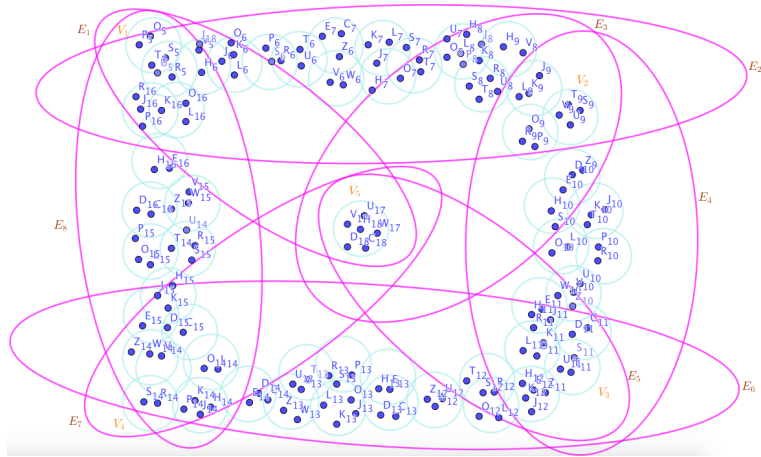

Figure 32. A Neutrosophic SuperHyperWheel $NSHW : (V, E)$, Associated to the Notions of SuperHyperForcing in the Example (14).

By using the Figure 32 and the Table 9, the neutrosophic SuperHyperWheel $NSHW : (V, E)$, is obtained. The obtained neutrosophic SuperHyperSet, by the Algorithm in previous result, of the neutrosophic SuperHyperVertices of the connected neutrosophic SuperHyperWheel $NSHW : (V, E)$, in the neutrosophic SuperHyperModel (32), is the neutrosophic SuperHyperForcing.

Table 9. The Values of Vertices, SuperVertices, Edges, HyperEdges, and SuperHyperEdges Belong to The Neutrosophic SuperHyperWheel $NSHW : (V, E)$, Mentioned in the Example (14).

The Values of The Vertices	The Number of Position in Alphabet
The Values of The SuperVertices	The Minimum Values of Its Vertices
The Values of The Edges	The Minimum Values of Its Vertices
The Values of The HyperEdges	The Minimum Values of Its Vertices
The Values of The SuperHyperEdges	The Minimum Values of Its Endpoints

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