$$\mathcal{G}_{\dot{U}} \subset W \wedge \dot{U}/a \xrightarrow[\text{Lsg}]{\dot{\mathfrak{l}}} \mathfrak{L}/b \Rightarrow {}^{U \cap \acute{U}}\mathfrak{l} = {}^{U \cap \acute{U}}\acute{\mathfrak{l}}$$

$$a \in N = \begin{cases} t \in U \cap \acute{U} \\ {}^{t}\mathfrak{l} = {}^{t}\acute{\mathfrak{l}} \end{cases} \subset U \cap \acute{U}$$

$$N \subseteq U \cap \acute{U}$$

$$c \in N \Rightarrow d = {}^{c}\mathfrak{l} = {}^{c}\acute{\mathfrak{l}} \Rightarrow c{:}d \in W \underset{\text{LIP}}{\Rightarrow} \bigvee \bar{\mathbb{R}}^{c}_{\delta} \times \bar{\mathfrak{L}}^{d}_{\varepsilon} \underset{\text{Lip}}{\subset} W$$

$$\bar{\mathbb{R}}^{c}_{\delta} \underset{\text{OE}}{\subset} U \cap \acute{U} \underset{\text{PIC}}{\Rightarrow} \bigvee_{\text{eind}} \bar{\mathbb{R}}^{c}_{\delta}/c \xrightarrow[\text{Lsg}]{\mathfrak{k}} \mathfrak{L}/d$$

$$\Rightarrow \bar{\mathbb{R}}^{c}_{\delta}/c \xrightarrow[\text{Lsg}]{\mathfrak{l}{:}\mathfrak{k}{:}\acute{\mathfrak{l}}} \mathfrak{L}/d \underset{\text{eind}}{\Rightarrow} \mathfrak{l} \underset{\bar{\mathbb{R}}^{c}_{\delta}}{=} \mathfrak{k} \underset{\bar{\mathbb{R}}^{c}_{\delta}}{=} \acute{\mathfrak{l}} \Rightarrow \bar{\mathbb{R}}^{c}_{\delta} \subset N$$

$$U \cap \acute{U} \text{ prim } \Rightarrow N = U \cap \acute{U}$$

$$\max \text{Lsg} \,/ \bigvee_{\max}^{\text{eind}} \mathbb{I}/a \xrightarrow[\text{Lsg}]{\mathfrak{l}} \mathfrak{L}/b$$

$$a \in \mathbb{I} = \bigcup_{\bigvee U/a \xrightarrow[\text{Lsg}]{\mathfrak{l}_U} \mathfrak{L}/b} U \text{ off vall } \Rightarrow \text{well-def } \mathbb{I}/a \xrightarrow[\text{Lsg}]{\mathfrak{l} = \bigcup \mathfrak{l}_U} \mathfrak{L}/b$$

$$\mathcal{G}_{\text{ს}} \subset W$$

$$\mathcal{G}_{\text{ს}} \ni a_n{:}b_n \rightsquigarrow c{:}d \in W \Rightarrow \bigvee \bar{\mathbb{R}}_\delta^c \times \bar{\text{ʟ}}_\varepsilon^B \underset{\text{Lip}}{\subseteq} W\colon \quad d \in B \subset \text{ʟ} \Rightarrow \bigvee a_n{:}b_n \in \mathbb{R}_\delta^c \times B \Rightarrow a_n \in \mathbb{I} \cap \bar{\mathbb{R}}_\delta^c \text{ vall}$$

$$b_n = {}^{a_n}\text{ს} \in B \Rightarrow \bigvee_{\text{eind}} \bar{\mathbb{R}}_\delta^c / a_n \xrightarrow[\text{Lsg}]{\text{ʏ}} \text{ʟ}/b_n \Rightarrow \mathbb{I} \cap \bar{\mathbb{R}}_\delta^c / a_n \xrightarrow[\text{Lsg}]{\text{ს:ʏ}} \text{ʟ}/b_n$$

$$\Rightarrow \text{ს} \underset{\mathbb{I} \cap \bar{\mathbb{R}}_\delta^c}{=} \text{ʏ} \Rightarrow \text{ well-def } \mathbb{I} \cup \bar{\mathbb{R}}_\delta^c / a \xrightarrow[\text{Lsg}]{\text{ს} \cup \text{ʏ}} \text{ʟ}/b \underset{\max}{\Rightarrow} \bar{\mathbb{R}}_\delta^c \subset \mathbb{I} \Rightarrow c \in \mathbb{I}$$

$$a_n{:}{}^{a_n}\text{ს} \rightsquigarrow c{:}d \underset{\text{stet}}{\Rightarrow} {}^{c}\text{ს} = d \Rightarrow c{:}d \in \mathcal{G}_{\text{ს}}$$