$$\mathcal{B} \subset \mathcal{P}(\underline{\rceil}) \text{ tvs 0-filterbase } \Leftrightarrow \bigwedge_{U \in \mathcal{B}}$$

$$\text{F1 } 0 \in U \text{ F2 } \bigwedge_{V \in \mathcal{B}} \bigvee_{W \in \mathcal{B}} W \subset U \cap V$$

$$\text{M0 } \bigwedge_{\urcorner \in \underline{\rceil}} \bigvee_{\varepsilon > 0} \urcorner\varepsilon \in U \text{ radial}$$

$$\text{A1 } \bigvee_{V \in \mathcal{B}} V + V \subset U$$

$$\text{M1 } \bigwedge_{\lambda \in K \llcorner 0} \bigvee_{V \in \mathcal{B}} U\lambda \supset V$$

$$\text{M2 } \bigvee_{V \in \mathcal{B}} \bigwedge_{\overline{\zeta} \leqslant 1} V\zeta \subset U$$

$$\underline{\text{Ч}} \sqsubset \underline{\rceil} \Leftrightarrow \bigwedge_{\urcorner \in \underline{\text{Ч}}} \bigvee_{U \in \mathcal{B}} \urcorner + U \subset \underline{\text{Ч}} \text{ Top on } \underline{\rceil}$$

$$\underline{\text{Ч}}_\iota \sqsubset \underline{\rceil} \Rightarrow \bigcup_\iota \underline{\text{Ч}}_\iota \sqsubset \underline{\rceil}$$

$$\urcorner \in \bigcup_\iota \underline{\text{Ч}}_\iota \Rightarrow \bigwedge_{\iota_0} \urcorner \in \underline{\text{Ч}}_{\iota_0} \Rightarrow \bigvee_{U \in \mathcal{B}} \urcorner + U \subset \underline{\text{Ч}}_{\iota_0} \subset \bigcup_\iota \underline{\text{Ч}}_\iota$$

$$\underline{\text{Ч}}_i \sqsubset \underline{\rceil} \Rightarrow \bigcap_i \underline{\text{Ч}}_i \sqsubset \underline{\rceil}$$

$$\urcorner \in \bigcap_{i \in n} \underline{\text{Ч}}_i \Rightarrow \bigwedge_{i \in n} \urcorner \in \underline{\text{Ч}}_i \Rightarrow \bigvee_{U_i \in \mathcal{B}} \urcorner + U_i \subset \underline{\text{Ч}}_i \underset{\text{F2}}{\Rightarrow} \bigvee_{V \in \mathcal{B}} V \subset \bigcap_{i \in n} U_i$$

$$\Rightarrow \urcorner + V \subset \bigcap_i \urcorner + U_i \subset \bigcap_i \underline{\text{Ч}}_i$$

$$\Rightarrow \mathcal{T} \text{ Top on } \underline{\rceil} \text{ transl-inv}$$

$$\bigwedge_{U \in \mathcal{B}} \llcorner U \lrcorner = \frac{\urcorner \in \underline{\rceil}}{\bigvee_{V \in \mathcal{B}} \urcorner + V \subset U} \sqsubset \underline{\rceil}$$

$$\underline{U} \subset U$$

$$\urcorner \in \underline{U} \Rightarrow \bigvee_{V \in \mathcal{B}} \urcorner + V \subset U \Rightarrow \bigvee_{W \in \mathcal{B}} W + W \subset V \Rightarrow (\urcorner + W) + W \subset \urcorner + V \subset U \Rightarrow \urcorner + W \subset \underline{U} \Rightarrow \underline{U} \subsetneq \rceil$$

$$\urcorner = \urcorner + 0 \in \urcorner + V \subset U \Rightarrow \underline{U} \subset U$$

$$\urcorner \in \urcorner + \underline{U} \subsetneq \rceil$$

$$\rceil \in \nabla_0 \mathbb{K} \text{ top VR}$$

$$\rceil \times \rceil \xrightarrow[\urcorner:\lrcorner \text{ stet}]{+} \rceil$$

$$\urcorner + \lrcorner \in \beth \subsetneq \rceil \Rightarrow \bigvee_{U \in \mathcal{B}} \underbrace{\urcorner + \lrcorner} + U \subset \beth \underset{\text{A1}}{\Rightarrow} \bigvee_{V \in \mathcal{B}} V + V \subset U$$

$$\Rightarrow \dot{\urcorner} \in \dot{\urcorner} + V \subsetneq \rceil \wedge \underbrace{\urcorner + V} + \underbrace{\lrcorner + V} \subset \underbrace{\urcorner + V} + \underbrace{\lrcorner + V} = \underbrace{\urcorner + \lrcorner} + V + V \subset \underbrace{\urcorner + \lrcorner} + U \subset \beth \Rightarrow$$

$$\rceil \times \mathbb{K} \xrightarrow[\urcorner:\alpha \text{ stet}]{\cdot} \mathbb{K}$$

$$\urcorner\alpha \in \beth \subsetneq \rceil \Rightarrow \bigwedge_{U \in \mathcal{B}} \urcorner\alpha + U \subset \beth \underset{\text{A1}}{\Rightarrow} \bigvee_{V \in \mathcal{B}} V + V \subset U \underset{\text{M2}}{\Rightarrow} \bigvee_{W \in \mathcal{B}} \underset{<}{\mathbb{K}} W \subset V \underset{\text{M0}}{\Rightarrow} \bigvee_{\varepsilon > 0} \urcorner\varepsilon \in W$$

$$\underset{\text{M1}}{\Rightarrow} \bigvee_{Y \in \mathcal{B}} Y \subset \frac{W}{\ulcorner\alpha\urcorner + \varepsilon} \urcorner \in \urcorner + Y \subsetneq \rceil$$

$$\alpha \in \underset{<}{\mathbb{K}}{}_{\varepsilon}^{\alpha} \subsetneq \mathbb{K}$$

$$\urcorner \underset{<}{\mathbb{K}}{}_{\varepsilon} = \urcorner \underset{<}{\mathbb{K}}{}_{\varepsilon} \subset \underset{<}{\mathbb{K}} W \subset V \supset \underset{<}{\mathbb{K}} W \supset W \frac{\underset{<}{\mathbb{K}}{}_{\varepsilon}^{\alpha}}{\ulcorner\alpha\urcorner + \varepsilon} \supset \nleftarrow \underset{<}{l}{}_{\varepsilon}^{\alpha}$$

$$\Rightarrow \overbrace{\urcorner + \underline{Y}}\, \underset{<}{\mathbb{K}}{}_{\varepsilon}^{\alpha} \subset \overbrace{\urcorner + Y}\, \underset{<}{\mathbb{K}}{}_{\varepsilon}^{\alpha} \subset \urcorner\alpha + \urcorner \underset{<}{\mathbb{K}}{}_{\varepsilon} + \urcorner \underset{<}{\mathbb{K}}{}_{\varepsilon}^{\alpha} \subset \urcorner\alpha + V + V \subset \urcorner\alpha + U \subset \beth$$