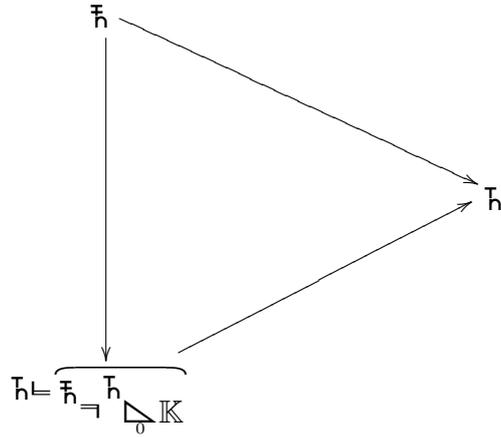


$$\mathfrak{h} \in \mathbb{K} \triangleleft_0^\omega$$

$$\bar{\mathfrak{h}} \subseteq_{\text{ex}} \mathfrak{h} \Leftrightarrow$$



$$\mathfrak{h}_i \subseteq_{\text{ex}} \mathfrak{h} \Rightarrow \bigcap_i \mathfrak{h}_i \subseteq_{\text{ex}} \mathfrak{h}$$

$$\mathfrak{h} \subseteq_{\text{ex}} \mathfrak{h} \Rightarrow \mathfrak{h} \cup \mathfrak{h}' \subseteq_{\text{ex}} \mathfrak{h}$$

$$\bar{\mathfrak{h}} = \mathfrak{h} \subseteq \overbrace{\bar{\mathfrak{h}} \neg \quad \bar{\mathfrak{h}} \triangle_0^\omega} \mathbb{K}$$

$$A_0 \subset \bar{\mathfrak{h}} \supset A_1$$

$$A_0 \cap A_1 = \emptyset \Rightarrow \begin{cases} \forall \gamma \in \bar{\mathfrak{h}} \triangle_0 \mathbb{I} \\ A_j \cap \gamma = j \end{cases}$$

$$\begin{aligned} & \mathbb{Q} \cap \underset{0}{\overset{1}{\mathbb{R}}} \\ & \bigwedge_r \bigvee_{U_r \subset \mathfrak{h}} A_0 \subset U_r \in \mathfrak{h} \perp A_1 \\ & r < s \Rightarrow U_r \in U_s \end{aligned}$$

$$r_0 = 0: r_1 = 1 \Rightarrow \bigvee A_0 \subset U_0 \in U_1 \in \mathfrak{h} \perp A_1$$

$$\mathbb{Q} \cap \underset{0}{\overset{1}{\mathbb{R}}} = \{r_2: r_3: \dots\}$$

$$\text{chosen } U_{r_0} \dots U_{r_{n-1}} \Rightarrow r_n \notin \frac{r_k}{k \in n} \Rightarrow \bigvee_{i: j \in n} \begin{cases} r_i = \bigwedge_{k \in n}^{< r_n} r_k \\ r_j = \bigwedge_{k \in n}^{> r_n} r_k \end{cases}$$

$$\Rightarrow r_i < r_j \Rightarrow U_{r_i} \in U_{r_j} \Rightarrow \bigvee U_{r_i} \in U_{r_n} \in U_{r_j}$$

$$\gamma_r = r \chi_{\mathfrak{h} \perp \hat{U}_r} \text{ stet} \Rightarrow \mathfrak{h} \xrightarrow[\text{stet}]{\gamma_r = \bigwedge_r \gamma_r} \underset{-1}{\overset{1}{\mathbb{R}}}$$

$$\gamma^s = s \chi_{U_s} + \chi_{\mathfrak{h} \perp U_s} = s + (1-s) \chi_{\mathfrak{h} \perp U_s} \text{ stet} \Rightarrow \mathfrak{h} \xrightarrow[\text{stet}]{\bar{\gamma} = \bigwedge_s \gamma^s} \underset{-1}{\overset{1}{\mathbb{R}}}$$

$$\underline{\gamma} = \bar{\gamma} = \gamma \text{ stet}$$

$$\nexists \bigvee_x^{\mathfrak{h}} x \underline{\gamma} > x \bar{\gamma} \Rightarrow \bigvee_{r: s} x \gamma_r > x \gamma^s \Rightarrow x \in U_s \perp \hat{U}_r$$

$$r > s \Rightarrow U_r \supset \hat{U}_s \nexists$$

$$\nexists \bigvee_x^{\mathfrak{h}} x \underline{\gamma} < x \bar{\gamma} \Rightarrow \bigvee_{r: s} x \gamma_r \leq x \underline{\gamma} < r < s < x \bar{\gamma} \leq x \gamma^s \Rightarrow x \in \hat{U}_r \perp U_s$$

$$\hat{U}_r \subset U_s \nexists$$

$$\Upsilon^{A_j} = j$$

$$x \in A_0 \Rightarrow \bigwedge_{r:s} x \in U_s \Rightarrow {}^x\gamma = \bigwedge_s {}^x\gamma^s = \bigwedge_s s = 0$$

$$x \in A_1 \Rightarrow \bigwedge_{r:s} x \in \mathfrak{h}\perp\hat{U}_r \Rightarrow {}^x\gamma = \bigwedge_r {}^x\gamma_r = \bigwedge_r r = 1$$