$$\underline{\mathbb{R}{:}o}\rfloor_r = \frac{x \in \mathbb{R}}{x \wr o \leqslant r}$$

$$\underline{\mathbb{R}{:}o}\rceil_r = \frac{x \in \mathbb{R}}{x \wr o < r}$$

$$U \underset{\text{off}}{\subsetneq} \mathbb{R} \Leftrightarrow \bigwedge_{x}^{U} \bigvee_{r > 0} \underline{\mathbb{R}{:}x}\rfloor_r \subset U$$

$$\underline{\mathbb{R}{:}o}\rceil_R \subsetneq \mathbb{R}$$

$$x \in \underline{\mathbb{R}{:}o}\rceil_R \Rightarrow x \wr o < r \Rightarrow r - x \wr o > 0$$

$$\underline{\mathbb{R}{:}x}\rfloor_{r - x \wr o} \subset \underline{\mathbb{R}{:}o}\rceil_r$$

$$\acute{x} \in \underline{\mathbb{R}{:}x}\rfloor_{r - x \wr o} \Rightarrow \acute{x} \wr x < r - x \wr o \Rightarrow \acute{x} \wr o \underset{\text{trans}}{\leqslant} \underbrace{\acute{x} \wr x}_{< r - x \wr o} + x \wr o < r$$

$$A \overset{\text{abg}}{\subset} \mathbb{R} \Leftrightarrow \mathbb{R} \llcorner A \subsetneq \mathbb{R}$$

$$C \underset{\text{off}}{\overset{\text{abg}}{\subsetneq}} \mathbb{R} \Leftrightarrow C \subsetneq \mathbb{R} \supset C$$

$$\varnothing \sqsubset \mathbb{R} \sqsupset \mathbb{R} \begin{cases} U_i \Subset \mathbb{R} & \Rightarrow \bigcup_i U_i \Subset \mathbb{R} \\ A_i \sqsubset \mathbb{R} & \Rightarrow \bigcap_i A_i \sqsubset \mathbb{R} \end{cases} \begin{cases} U_n \Subset \mathbb{R} & \Rightarrow \bigcap_n U_n \Subset \mathbb{R} \\ A_n \sqsubset \mathbb{R} & \Rightarrow \bigcup_n A_n \sqsubset \mathbb{R} \end{cases}$$

$$\Subset : \quad x \in \bigcup_i U_i \Rightarrow \bigvee_j^I x \in U_j \Rightarrow \bigvee_{r>0} \underline{\mathbb{R}{:}x}_r \subset U_j \subset \bigcup_i U_i \Rightarrow \underline{\mathbb{R}{:}x}_r \subset U_j \subset \bigcup_i U_i$$

$$\sqsubset : \quad \mathbb{R} \llcorner A_i \Subset \mathbb{R} \Rightarrow \mathbb{R} \llcorner \overbrace{\bigcap_i A_i} = \bigcup_i \overbrace{\mathbb{R} \llcorner A_i} \Subset \mathbb{R} \Rightarrow \bigcap_i A_i \sqsubset \mathbb{R}$$

Folg-Krit / $\qquad A \sqsubset \mathbb{R} \Leftrightarrow \bigwedge_{\text{Folgen}} A \ni {}^n\wr \rightsquigarrow {}^\infty\wr \in \mathbb{R} \curvearrowright {}^\infty\wr \in A$

$$\mathbb{R} \sqsupset U \Rightarrow U = \bigcup_{a \text{ abz}} \underset{\smile}{U}_a$$