$$\underset{<}{\mathbb{C}}:0 \xrightarrow[\text{hol}]{\wr} \underset{<}{\mathbb{C}}:0 \Rightarrow * \begin{cases} \overline{{}^{0}\underline{\wr}} \leqslant 1 & z = 0 \\ \overline{{}^{z}\wr} \leqslant \ulcorner z \urcorner & z \neq 0 \end{cases}$$

$$** \begin{cases} \overline{{}^{0}\underline{\wr}} = 1 \\ \bigvee_{e \neq 0}^{\underset{<}{\mathbb{C}}} \overline{{}^{e}\wr} = \ulcorner e \urcorner \end{cases} \quad \Rightarrow \wr = {}^{0}\underline{\wr} \in \bar{\bar{\mathbb{C}}}$$

$${}^{z}\mathsf{1} = \begin{cases} {}^{0}\underline{\wr} & z = 0 \\ \dfrac{{}^{z}\wr}{z} = \dfrac{{}^{z}\wr - {}^{0}\wr}{z - 0} & \underset{<}{\mathbb{C}} \ni z \neq 0 \end{cases} \Rightarrow \mathsf{1} \in \underset{<}{\mathbb{C}} \underset{\omega}{\triangle} \mathbb{C}$$

$$\bigwedge_{\zeta}^{\underline{\mathbb{C}}_r} \overline{{}^{\zeta}\mathsf{1}} = \frac{\overline{{}^{\zeta}\wr}}{r} < \frac{1}{r} \Rightarrow \bigwedge_{\ulcorner z \urcorner < r < 1} \overline{{}^{z}\mathsf{1}} \underset{\text{Max}}{\overset{\text{bou}}{\leqslant}} \overline{{}^{\underline{\mathbb{C}}_r}\dot{\mathsf{1}}} \leqslant \frac{1}{r} \; {}_{r} \searrow_{1} \; 1 \Rightarrow \overline{{}^{z}\mathsf{1}} \leqslant 1 \Rightarrow *$$

$$** \Rightarrow \bigvee_{o}^{\underset{<}{\mathbb{C}}} {}^{o}\mathsf{1} = 1 = \overline{{}^{\underline{\mathbb{C}}_r}\dot{\mathsf{1}}} \underset{\text{Max}}{\overset{\text{int}}{\Rightarrow}} \mathsf{1} \underset{\text{cst}}{=} \vartheta \in \bar{\bar{\mathbb{C}}}$$

$$\underset{<}{\mathbb{C}} \xrightarrow[\text{hol}]{\wr} \underset{<}{\mathbb{C}} \Longrightarrow \begin{cases} \dfrac{\overline{{}^w\underline{\wr}}}{1-\overline{{}^w\wr}^2} \leqslant \dfrac{1}{1-\overline{w}^2} : \quad \overline{{}^w\underline{\wr}} \leqslant \dfrac{1-\overline{{}^w\wr}^2}{1-\overline{w}^2} : \quad \overline{{}^0\underline{\wr}} \leqslant 1-\overline{{}^0\wr}^2 \\ \overline{\dfrac{{}^z\wr - {}^w\wr}{1-{}^z\wr\,{}^w\overset{*}{\wr}}} \leqslant \overline{\dfrac{z-w}{1-z\overset{*}{w}}} : \quad \overline{\dfrac{{}^z\wr-{}^w\wr}{z-w}} \leqslant \overline{\dfrac{1-{}^z\wr\,{}^w\overset{*}{\wr}}{1-z\overset{*}{w}}} \end{cases}$$

$${}^z\gamma^w = \frac{z+w}{1+z\bar{w}} \Longrightarrow \underset{<}{\mathbb{C}}:0 \xrightarrow[\text{hol}]{\gamma^w \ltimes \wr \ltimes \bar{\gamma}^{{}^w\wr}} \underset{<}{\mathbb{C}}:0$$

$$\underbrace{1-\overline{w}^2}\ {}^w\underline{\wr} = {}^0\underline{\gamma^w}\ {}^w\underline{\wr} = {}^0\underline{\gamma^w\ltimes\wr} = {}^0\underline{\gamma^w\ltimes\wr\ltimes\bar{\gamma}^{{}^w\wr}\ltimes\gamma^{{}^w\wr}} = {}^0\underline{\gamma^w\ltimes\wr\ltimes\bar{\gamma}^{{}^w\wr}}\ {}^0\underline{\gamma^{{}^w\wr}} = {}^0\underline{\gamma^w\ltimes\wr\ltimes\bar{\gamma}^{{}^w\wr}}\ \underbrace{1-\overline{{}^w\wr}^2}$$

$$\Longrightarrow \underbrace{1-\overline{w}^2}\ \overline{{}^w\underline{\wr}} = \overbrace{{}^0\underline{\gamma^w\ltimes\wr\ltimes\bar{\gamma}^{{}^w\wr}}}^{\leqslant 1}\ \underbrace{1-\overline{{}^w\wr}^2} \leqslant 1-\overline{{}^w\wr}^2$$

$$\frac{{}^z\wr-{}^w\wr}{1-{}^z\wr\,{}^w\overset{*}{\wr}} = {}^{{}^z\wr}\bar{\gamma}^{{}^w\wr} = {}^z\underbrace{\wr\ltimes\bar{\gamma}^{{}^w\wr}} = {}^z\underbrace{\bar{\gamma}^w\ltimes\gamma^w\ltimes\wr\ltimes\bar{\gamma}^{{}^w\wr}} = {}^{{}^z\bar{\gamma}^w}\underbrace{\gamma^w\ltimes\wr\ltimes\bar{\gamma}^{{}^w\wr}}$$

$$\Longrightarrow \overline{\frac{{}^z\wr-{}^w\wr}{1-{}^z\wr\,{}^w\overset{*}{\wr}}} = \overline{{}^{{}^z\bar{\gamma}^w}\underbrace{\gamma^w\ltimes\wr\ltimes\bar{\gamma}^{{}^w\wr}}} \underset{\text{Schwarz}}{\leqslant} \overline{{}^z\bar{\gamma}^w} = \overline{\frac{z-w}{1-z\overset{*}{w}}}$$