$$\text{cpt } \hbar \xrightarrow[\text{stet}]{\text{ɿ}} \mathbb{R} \Longrightarrow {}^{\hbar}\text{ɿ} \text{ cpt}$$

$$\bigvee \begin{cases} {}^{\bar{x}}\text{ɿ} = \max {}^{\hbar}\text{ɿ} \\ {}^{\underline{x}}\text{ɿ} = \min {}^{\hbar}\text{ɿ} \end{cases}$$

$$y_n \in {}^{\hbar}\text{ɿ} \Longrightarrow \bigvee_{x_n \in \hbar} y_n = {}^{x_n}\text{ɿ} \Longrightarrow \bigvee x_{j_n} \rightsquigarrow x \in \hbar \Longrightarrow y_{j_n} = {}^{x_{j_n}}\text{ɿ} \rightsquigarrow {}^{x}\text{ɿ} \in {}^{\hbar}\text{ɿ} \Longrightarrow {}^{\hbar}\text{ɿ} \text{ cpt}$$

$$\underset{\text{bes}}{\Longrightarrow} \bigvee \begin{cases} \bar{y} = \sup {}^{\hbar}\text{ɿ} \\ \underline{y} = \inf {}^{\hbar}\text{ɿ} \end{cases} \Longrightarrow \bigvee \begin{cases} {}^{\hbar}\text{ɿ} \ni \bar{y}_n \rightsquigarrow \bar{y} \\ {}^{\hbar}\text{ɿ} \ni \underline{y}_n \rightsquigarrow \underline{y} \end{cases} \underset{\text{abg}}{\Longrightarrow} \begin{cases} \bar{y} = {}^{\bar{x}}\text{ɿ} \\ \underline{y} = {}^{\underline{x}}\text{ɿ} \end{cases}$$

$$\text{comp int } H \xrightarrow[\text{stet}]{\wr} \mathbb{R} \underset{\text{EWS}}{\Longrightarrow} {}^{H}\wr \text{ comp int}$$

$$\begin{cases} \overset{\max}{\underset{\not{x} \in H}{\bigvee}} \quad {}^{\not{x}}\wr = {}^{H}\dot{\wr} = \max\limits_{x \in H} {}^{x}\wr \\ \overset{\min}{\underset{\not{x} \in H}{\bigvee}} \quad {}^{\not{x}}\wr = {}^{H}\underset{\bullet}{\wr} = \min\limits_{x \in H} {}^{x}\wr \end{cases}$$

$${}^{H}\wr \text{ oben bes : } \quad {}^{H}\dot{\wr} < +\infty$$

$$\lightning \; {}^{H}\wr \text{ oben unbes } \Longrightarrow \bigwedge_{n} \bigvee_{{}_{n}b}^{H} {}^{{}_{n}b}\wr \geqslant n \underset{\text{Wei}}{\overset{\text{Bol}}{\Longrightarrow}} \bigvee_{\not{n} \geqslant n}^{\text{Teilfolge}} {}_{\not{n}}b \rightsquigarrow b \in H \underset{\text{SC}}{\Longrightarrow} n \leqslant \not{n} \leqslant {}^{{}_{\not{n}}b}\wr \rightsquigarrow {}^{b}\wr \; \lightning$$

$${}^{H}\underset{\bullet}{\wr} \in {}^{H}\wr$$

$$\bigwedge_{n \geqslant 1} {}^{H}\dot{\wr} - \frac{1}{n} \text{ keine ob Schr } \Longrightarrow \bigvee_{{}_{n}a}^{H} {}^{{}_{n}a}\wr > {}^{H}\dot{\wr} - \frac{1}{n}$$

$$\underset{\text{Wei}}{\overset{\text{Bol}}{\Longrightarrow}} \bigvee_{\not{n} \geqslant n}^{\text{Teilfolge}} {}_{\not{n}}a \rightsquigarrow a \in H \Longrightarrow {}^{H}\dot{\wr} < {}^{{}_{\not{n}}a}\wr + \frac{1}{\not{n}} \underset{\text{SC}}{\rightsquigarrow} {}^{a}\wr + 0 = {}^{a}\wr \Longrightarrow {}^{H}\dot{\wr} \leqslant {}^{a}\wr \Longrightarrow {}^{H}\dot{\wr} = {}^{a}\wr$$