$$\hbar \xrightarrow{\text{ʔ}} \text{ɿ} \Rightarrow \hbar \xrightarrow{\overline{\text{ʔ}}^{p}} \mathbb{R}_+$$

$$\text{ʔ} \in {}^{\hbar}\underset{0}{\overset{0}{\triangle}}\text{ɿ} \Rightarrow \overline{\text{ʔ}}^{p} \in {}^{\hbar}\underset{0}{\overset{0}{\triangle}}\mathbb{R}_+ \Rightarrow \overline{\overline{\text{ʔ}}}_p = \overbrace{\int_{\mu}^{\hbar} \overline{\text{ʔ}}^{p}}^{1/p} = {}^{1/p}\overbrace{\int_{\mu}^{\hbar} \overline{\text{ʔ}}^{p}} < \infty$$

$$\overline{\overline{\text{ʔ} + \text{ʔ́}}} \leqslant \overline{\overline{\text{ʔ}}} + \overline{\overline{\text{ʔ́}}}$$

$$\overline{\overline{\text{ʔ}a}} = \overline{\overline{\text{ʔ}}}\,\overline{a}$$

$$|\overline{\text{ʔ}}\,\overline{\text{ʔ́}}| \leqslant \overline{\overline{\text{ʔ}}}\,\overline{\overline{\text{ʔ́}}}$$

$$\overline{\text{ʔ} + \text{ʔ́}} \leqslant \overline{\text{ʔ}} + \overline{\text{ʔ́}} \Rightarrow \overline{\overline{\text{ʔ} + \text{ʔ́}}} = |\overline{\text{ʔ} + \text{ʔ́}}| \leqslant |\overline{\text{ʔ}}| + |\overline{\text{ʔ́}}| = \overline{\overline{\text{ʔ}}} + \overline{\overline{\text{ʔ́}}}$$

$$\overline{\text{ʔ}a} = \overline{\text{ʔ}}\,\overline{a} \Rightarrow \overline{\overline{\text{ʔ}a}} = |\overline{\text{ʔ}a}| = |\overline{\text{ʔ}}\,\overline{a}| = |\overline{\text{ʔ}}|\overline{a} = \overline{\overline{\text{ʔ}}}\,\overline{a}$$

$$|\overline{\text{ʔ}}\,\overline{\text{ʔ́}}| \leqslant |\overline{\text{ʔ}}||\overline{\text{ʔ́}}| = \overline{\overline{\text{ʔ}}}\,\overline{\overline{\text{ʔ́}}}$$

$${}^{\hbar}\underset{m}{\overset{p}{\triangle}}\text{ɿ} = \frac{\hbar \xrightarrow{\text{ʔ}} \text{ɿ}}{\bigvee \text{ʔ}_k \in {}^{\hbar}\underset{0}{\overset{0}{\triangle}}\text{ɿ}:\quad \overline{\overline{\text{ʔ} - \text{ʔ}_k}} \rightsquigarrow 0}$$

$${}^{\hbar}\underset{m}{\overset{p}{\triangle}}\text{ɿ} \ni \text{ʔ} \Rightarrow \overline{\overline{\text{ʔ}}} < \infty$$

$${}^{\hbar}\underset{m}{\overset{p}{\triangle}}\text{ɿ} \in \underset{0}{\overset{n}{\triangledown}}\mathbb{K} \text{ halb-norm } \Rightarrow {}^{\hbar}\underset{m}{\overset{p}{\triangle}}\text{ɿ} \vDash \frac{\text{ɂ} \in {}^{\hbar}\underset{m}{\overset{p}{\triangle}}\text{ɿ}}{\overline{\overline{\text{ɂ}}} = 0} \in \underset{0}{\overset{n}{\triangledown}}\mathbb{K} \text{ norm}$$

$$\dot{\text{ʔ}} \in {}^{\hbar}\underset{m}{\overset{p}{\triangle}}\text{ɿ} \Rightarrow \begin{cases} \bigvee \dot{\text{ʔ}}_k \in {}^{\hbar}\underset{0}{\overset{0}{\triangle}}\text{ɿ} \\ \overline{\overline{\dot{\text{ʔ}} - \dot{\text{ʔ}}_k}} \rightsquigarrow 0 \end{cases} \Rightarrow \text{ʔ}_k a + \text{ʔ́}_k \acute{a} \in {}^{\hbar}\underset{0}{\overset{0}{\triangle}}\text{ɿ}$$

$$\overline{\overline{\underbrace{\text{ʔ}a + \text{ʔ́}\acute{a}} - \underbrace{\text{ʔ}_k a + \text{ʔ́}_k \acute{a}}}} = \overline{\overline{\underbrace{\text{ʔ} - \text{ʔ}_k} a + \underbrace{\text{ʔ́} - \text{ʔ́}_k} \acute{a}}} \leqslant \overline{\overline{\text{ʔ} - \text{ʔ}_k}}\,\overline{a} + \overline{\overline{\text{ʔ́} - \text{ʔ́}_k}}\,\overline{\acute{a}} \rightsquigarrow 0$$

$$\hbar\overset{p}{\underset{0}{\triangle}}\rceil \text{ voll} \Rightarrow \hbar\overset{p}{\underset{m}{\triangle}}\rceil \ulcorner \frac{1 \in \hbar\overset{p}{\underset{m}{\triangle}}\rceil}{\ulcorner 1 \urcorner = 0} \text{ voll treu}$$

$$\hbar\overset{p}{\underset{m}{\triangle}}\rceil \ni \daleth_k \Rightarrow \underset{\text{OE}}{\Longrightarrow} \overline{\daleth_k - \daleth_{k+1}} \leqslant 2^{-k} \Rightarrow \begin{cases} \bigvee 1_k \in \hbar\overset{0}{\underset{0}{\triangle}}\rceil \\ \overline{\daleth_k - 1_k} \leqslant 2^{-k} \end{cases}$$

$$\Rightarrow \overline{1_k - 1_{k+1}} \leqslant \overline{1_k - \daleth_k} + \overline{\daleth_k - \daleth_{k+1}} + \overline{\daleth_{k+1} - 1_{k+1}} \leqslant 2^{-k} + 2^{-k} + 2^{-1-k} \leqslant 2^{2-k}$$

$$\text{Sei } \hbar \xrightarrow{1} \rceil \bigwedge_{x \in \hbar} \rceil \ni {}^x 1_k \Rightarrow\Longrightarrow {}^x 1 \backsim {}^x 1_k \underset{\text{LEM}}{\Longrightarrow} \overline{1 - 1_k} \leqslant \sum_{j \geqslant k} \overline{1_{j+1} - 1_j}$$

$$\underset{\text{LEM}}{\Longrightarrow} \overline{1 - 1_k} = \overline{1 - 1_k}| \leqslant \sum_{j \geqslant k} |\overline{1_{j+1} - 1_j}| \leqslant \sum_{j \geqslant k} \overline{1_{j+1} - 1_j} \leqslant \sum_{j \geqslant k} 2^{2-j} = 2^{3-k} \Rightarrow 1 \in \hbar\overset{p}{\underset{m}{\triangle}}\rceil$$

$$\overline{\daleth_k - 1} \leqslant \overline{\daleth_k - 1_k} + \overline{1_k - 1} \leqslant 2^{-k} + 2^{3-k} \leqslant 2^{4-k} \rightsquigarrow 0$$