$$\mathrm{HilbR}\ \daleth \in \underset{0}{\overset{2}{\triangledown}}\mathbb{K}$$

$$\mathbb{K}\underset{0}{\triangledown}\,\daleth \;\xrightarrow{\;\asymp\;}\; \bar{\daleth}$$

$$\bigwedge \llcorner \in \mathbb{K}\underset{0}{\triangledown}\,\daleth \ \bigvee_{\urcorner}^{\bar{\daleth}} \text{ eind } \bigwedge_{\urcorner}^{\daleth} \llcorner\urcorner = \urcorner \bowtie \urcorner$$

$$\bigvee_{\mathrm{ONB}} S \subset \daleth$$

$$\bigwedge_{T \subset S}^{\mathrm{fin}} \sum_s^T \overline{\llcorner s}^2 = \sum_s^T \underbrace{\llcorner s}\,\overset{*}{\widehat{\llcorner s}} = \llcorner \underbrace{\sum_s^T s \overset{*}{\widehat{\llcorner s}}} \leqslant \overline{\llcorner}\ \overline{\sum_s^T s \overset{*}{\widehat{\llcorner s}}} = \overline{\llcorner}\ \overline{\underbrace{\sum_s^T s \overset{*}{\widehat{\llcorner s}}} \bowtie \underbrace{\sum_t^T t \overset{*}{\widehat{\llcorner t}}}}^{1/2} = \overline{\llcorner}\ \overbrace{\sum_s^T \overline{\llcorner s}^2}^{1/2}$$

$$\Rightarrow \sum_s^T \overline{\llcorner s}^2 \leqslant \overline{\llcorner}^2 \geqslant \sum_s^S \overline{\llcorner s}^2 \underset{\mathrm{voll}}{\Longrightarrow} \bigvee \daleth \ni \urcorner = \sum_s^S s\,\overset{*}{\widehat{\llcorner s}}$$

$$\bigwedge_{\urcorner}^{\daleth} \urcorner \bowtie \urcorner = \sum_s^S \underbrace{s \overset{*}{\widehat{\llcorner s}}} \bowtie \urcorner = \sum_s^S \underbrace{\llcorner s}\,\underbrace{s \bowtie \urcorner} \ \underset{\mathrm{stet}}{\overset{\mathrm{lin}}{=}}\ \llcorner \sum_s^S s\,\underbrace{s \bowtie \urcorner} = \llcorner\urcorner$$