$$\urcorner = \nu^{I}\ {}_{I}\tilde{\urcorner}$$

$${}_{I}\urcorner \in {}^{\hbar}\underset{\infty}{\triangle}\mathbb{K}$$

$${}_{I}\urcorner \underset{\text{Taylor}}{=} \sum_{|\mu|<k} \overbrace{\dot{\nu} - {}^{o}\dot{\nu}1}^{\mu} {}^{o}\overbrace{{}_{\mu-I}\nu\urcorner} + \sum_{|\mu|=k} \overbrace{\dot{\nu} - {}^{o}\dot{\nu}1}^{\mu} \int_{dt}^{0|1} (1-t)^{k-1} k^{{}^{o}\nu + t\overline{\nu - {}^{o}\nu}} \overbrace{{}_{\mu-I}\nu\urcorner}$$

$$= \sum_{|\mu|<k} \overbrace{\dot{\nu} - {}^{o}\dot{\nu}1}^{\mu} {}^{o}\overbrace{{}_{\mu-I}\nu\urcorner} + \sum_{|\mu|=k} \overbrace{\dot{\nu} - {}^{o}\dot{\nu}1}^{\mu} {}_{I}\mathbb{T}_{k}$$

$${}_{I}\mathbb{T}_{k} = \int_{dt}^{0|1} (1-t)^{k-1} k^{{}^{o}\nu + t\overline{\nu - {}^{o}\nu}} \overbrace{{}_{\mu-I}\nu\urcorner} \in {}^{\hbar}\underset{\infty}{\triangle}\mathbb{K}$$

$$\urcorner = \nu^{I} \underbrace{\sum_{|\mu|<k} \overbrace{\tilde{\dot{\nu}} - {}^{o}\dot{\nu}1}^{\mu} \underset{\bigcirc}{{}^{o}}\overbrace{{}_{\mu-I}\tilde{\nu}\tilde{\urcorner}} + \sum_{|\mu|=k} \overbrace{\tilde{\dot{\nu}} - {}^{o}\dot{\nu}1}^{\mu} {}_{I}\tilde{\mathbb{T}}_{k}}$$

$${}^{o}_{\bigcirc}\mathcal{J} = \frac{\urcorner \in {}^{U^{|q}}\underset{\infty}{\triangle}\mathbb{K}}{{}^{o}_{\bigcirc}\urcorner = 0} \sqsubset {}^{U^{|q}}\underset{\infty}{\triangle}\mathbb{K}\ \text{ideal}$$

$${}^{U^{|q}}\underset{\infty}{\triangle}\mathbb{K} = {}^{\mathbb{R}^{q}}_{-}\triangle\dot{\mathbb{K}} \bowtie {}^{U}\underset{\infty}{\triangle}\mathbb{K}$$

$${}^{o}_{\bigcirc}\mathcal{J} = \left\{\tilde{\nu}^{j} - {}^{o}\nu^{j} : \nu^{i}\right\} {}^{U^{|q}}\underset{\infty}{\triangle}\mathbb{K}$$

$${}^{o}_{\bigcirc}\left(\tilde{\nu}^{j} - {}^{o}\nu^{j}1\right) = {}^{o}\overline{\nu^{j} - {}^{o}\nu^{j}1} = {}^{o}\nu^{j} - {}^{o}\nu^{j} = 0 \Longrightarrow \tilde{\nu}^{j} - {}^{o}\nu^{j}1 \in {}^{o}_{\bigcirc}\mathcal{J} \sqsupset {}_{\bigcirc}\mathcal{J} \ni \nu^{i}$$

$${}_{I}\urcorner = {}^{o}_{I}\urcorner + \sum_{j} \underbrace{\nu^{j} - {}^{o}\nu^{j}1} \int_{dt}^{0|1} {}^{{}^{o}\nu + t\overline{\nu - {}^{o}\nu}} \overbrace{{}_{j-I}\nu\urcorner} = {}^{o}_{I}\urcorner + \sum_{j} \underbrace{\nu^{j} - {}^{o}\nu^{j}1} {}_{I}\mathbb{T}_{1}$$

$${}_{I}\mathbb{T}_{1} = \int_{dt}^{0|1} {}^{{}^{o}\nu + t\overline{\nu - {}^{o}\nu}} \overbrace{{}_{j-I}\nu\urcorner} \in {}^{\hbar}\underset{\infty}{\triangle}\mathbb{K}$$

$${}^{o}_{\bigcirc}\mathcal{J} \ni \urcorner = \nu^{I}\ {}_{I}\tilde{\urcorner} = {}_{\bigcirc}\urcorner + \sum_{\bigcirc \neq I} \nu^{I}\ {}_{I}\tilde{\urcorner} = {}^{o}_{\bigcirc}\urcorner + \sum_{j} \underbrace{\nu^{j} - {}^{o}\nu^{j}1}_{\in {}^{o}_{\bigcirc}\mathcal{J}} {}_{\bigcirc}\mathbb{T}_{1} + \sum_{\bigcirc \neq I} \underbrace{\nu^{I}}_{\in {}^{o}_{\bigcirc}\mathcal{J}} {}_{I}\tilde{\urcorner}$$

$$\Longrightarrow \;\underset{\bigcirc}{}^{o}\daleth = 0 \Longrightarrow \daleth \in < \tilde{\nu}^{j} - {}^{o}\nu^{j} : \nu^{i} > U^{|q} \underset{\infty}{\triangle}\mathbb{K}$$

$$\daleth - \nu^{I} \sum_{|\mu| < k} \overbrace{\tilde{\nu}^{\cdot} - {}^{o}\nu^{\cdot} 1}^{\not\mu} \;\underset{\bigcirc}{}^{o}\overbrace{\tilde{\iota}_{\mu - I}\tilde{\daleth}} \in \underset{\bigcirc}{}^{o}\mathcal{J}^{k}$$

$$\text{LHS } = \nu^{I} \sum_{|\mu| = k} \overbrace{\tilde{\nu}^{\cdot} - {}^{o}\nu^{\cdot} 1}^{\not\mu} {}_{I}\tilde{\daleth}_{\mu}$$

$$\overbrace{\tilde{\nu}^{\cdot} - {}^{o}\nu^{\cdot} 1}^{\mu} \in \underset{\bigcirc}{}^{o}\mathcal{J}^{k} \underset{\text{ideal}}{\Longrightarrow} \text{ Beh}$$

$$\underset{\bigcirc}{}^{o}\mathcal{J}^{q+1} \sqsubset \left\{ \tilde{\nu}^{j} - {}^{o}\nu^{j} \right\} U^{|q} \underset{\infty}{\triangle}\mathbb{K}$$

$$\underset{\bigcirc}{}^{o}\mathcal{J}^{q+1} \ni \daleth = \sum_{|\mu| + |I| > q} \overbrace{\tilde{\nu}^{\cdot} - {}^{o}\nu^{\cdot}}^{\mu} \nu^{I} \; {}_{I}\daleth_{\mu}$$

$$\mu = 0 \Longrightarrow |I| > q \Longrightarrow \nu^{I} = 0$$

$$\Longrightarrow \daleth = \sum_{\mu \neq 0}$$

$$|\mu| + |I| > q \overbrace{\tilde{\nu}^{\cdot} - {}^{o}\nu^{\cdot}}^{\mu} \nu^{I} \; {}_{I}\daleth_{\mu} \in < \tilde{\nu}^{j} - {}^{o}\nu^{j} > U^{|q} \underset{\infty}{\triangle}\mathbb{K}$$

$$\bigcap_{\mathfrak{h} \in \bar{\mathfrak{h}}} \underset{\bigcirc}{}^{\mathfrak{h}}\mathcal{J}^{q+1} = 0$$