

$$\mathfrak{I} = \mathcal{V}^I \quad _I\tilde{\mathfrak{I}}$$

$$_I\mathfrak{I} \in {}^{\mathfrak{h}}\triangleleft_{\infty}\mathbb{K}$$

$$_I\mathfrak{I} \underset{\text{Taylor}}{=} \sum_{|\mu| < k} \overbrace{\mathcal{V} - {}^o\mathcal{V}^1}^{\mathfrak{h}} \widehat{{}^o\mathcal{L}_I\mathfrak{I}} + \sum_{|\mu| = k} \overbrace{\mathcal{V} - {}^o\mathcal{V}^1}^{\mathfrak{h}} \int^{0|1}_{dt} (1-t)^{k-1} k^{{}^o\mathcal{V} + t\overbrace{\mathcal{V} - {}^o\mathcal{V}}^{\mathfrak{h}}} \widehat{{}^o\mathcal{L}_I\mathfrak{I}}$$

$$= \sum_{|\mu| < k} \overbrace{\mathcal{V} - {}^o\mathcal{V}^1}^{\mathfrak{h}} \widehat{{}^o\mathcal{L}_I\mathfrak{I}} + \sum_{|\mu| = k} \overbrace{\mathcal{V} - {}^o\mathcal{V}^1}^{\mathfrak{h}} {}_I\mathbb{T}_k$$

$${}_I\mathbb{T}_k = \int^{0|1}_{dt} (1-t)^{k-1} k^{{}^o\mathcal{V} + t\overbrace{\mathcal{V} - {}^o\mathcal{V}}^{\mathfrak{h}}} \widehat{{}^o\mathcal{L}_I\mathfrak{I}} \in {}^{\mathfrak{h}}\triangleleft_{\infty}\mathbb{K}$$

$$\mathfrak{I} = \mathcal{V}^I \underbrace{\sum_{|\mu| < k} \overbrace{\widetilde{\mathcal{V}} - {}^o\mathcal{V}^1}^{\mathfrak{h}} \bigcirc \widehat{{}^o\mathcal{L}_I\mathfrak{I}} + \sum_{|\mu| = k} \overbrace{\widetilde{\mathcal{V}} - {}^o\mathcal{V}^1}^{\mathfrak{h}} {}_I\tilde{\mathfrak{I}}_k}_{\bigg(}$$

$$\bigcirc {}^o\mathcal{J} = \frac{\mathfrak{I} \in U^{|q} \triangleleft_{\infty}\mathbb{K}}{\bigcirc {}^o\mathfrak{I} = 0} \sqsubset U^{|q} \triangleleft_{\infty}\mathbb{K} \text{ ideal}$$

$$U^{|q} \triangleleft_{\infty}\mathbb{K} = \mathbb{R}^q \triangleleft_{-}\mathbb{K} \boxtimes U \triangleleft_{\infty}\mathbb{K}$$

$$\bigcirc {}^o\mathcal{J} = \left\{ \widetilde{\mathcal{V}}^j - {}^o\mathcal{V}^j : \mathcal{V}^i \right\} U^{|q} \triangleleft_{\infty}\mathbb{K}$$

$$\bigcirc {}^o\left(\widetilde{\mathcal{V}}^j - {}^o\mathcal{V}^j 1\right) = \overbrace{\mathcal{V}^j - {}^o\mathcal{V}^j 1}^{{}^o\mathcal{V}^j - {}^o\mathcal{V}^j 1} = {}^o\mathcal{V}^j - {}^o\mathcal{V}^j = 0 \Rightarrow \widetilde{\mathcal{V}}^j - {}^o\mathcal{V}^j 1 \in \bigcirc {}^o\mathcal{J} \supset \bigcirc {}^o\mathcal{J} \ni \mathcal{V}^i$$

$${}_I\mathfrak{I} = {}_I\mathfrak{I} + \sum_j \underbrace{\mathcal{V}^j - {}^o\mathcal{V}^j 1}_{\int^{0|1} {}^o\mathcal{V} + t\overbrace{\mathcal{V} - {}^o\mathcal{V}}^{\mathfrak{h}}} \widehat{{}^o\mathcal{L}_I\mathfrak{I}} = {}_I\mathfrak{I} + \sum_j \underbrace{\mathcal{V}^j - {}^o\mathcal{V}^j 1} {}_I\mathbb{T}_1$$

$${}_I\mathbb{T}_1 = \int^{0|1} {}^o\mathcal{V} + t\overbrace{\mathcal{V} - {}^o\mathcal{V}}^{\mathfrak{h}} \widehat{{}^o\mathcal{L}_I\mathfrak{I}} \in {}^{\mathfrak{h}}\triangleleft_{\infty}\mathbb{K}$$

$$\bigcirc {}^o\mathcal{J} \ni \mathfrak{I} = \mathcal{V}^I \quad {}_I\tilde{\mathfrak{I}} = \bigcirc \mathfrak{I} + \sum_{\bigcirc \neq I} \mathcal{V}^I \quad {}_I\tilde{\mathfrak{I}} = \bigcirc \mathfrak{I} + \sum_j \underbrace{\mathcal{V}^j - {}^o\mathcal{V}^j 1}_{\in \bigcirc {}^o\mathcal{J}} \bigcirc \mathbb{T}_1 + \sum_{\bigcirc \neq I} \underbrace{\mathcal{V}^I}_{\in \bigcirc {}^o\mathcal{J}} \quad {}_I\tilde{\mathfrak{I}}$$

$$\Rightarrow \underset{\bigcirc}{\text{○}}^o\mathsf{I} = 0 \Rightarrow \mathsf{I} \in <\widetilde{\mathcal{V}}^j - {}^o\mathcal{V}^j : \mathcal{V}^i> \overset{U^{|q}}{\triangleright}_\infty \mathbb{K}$$

$$\mathsf{I} - \mathcal{V}^I \sum_{|\mu| < k} \overbrace{\widetilde{\mathcal{V}} - {}^o\mathcal{V}^1}_{\bigcirc} \underset{\bigcirc}{\text{○}}^o \overbrace{\widetilde{\mathfrak{U}}_I \mathsf{I}}_{\mu} \in \underset{\bigcirc}{\text{○}}^o \mathcal{J}^k$$

$$\text{LHS} = \mathcal{V}^I \sum_{|\mu| = k} \overbrace{\widetilde{\mathcal{V}} - {}^o\mathcal{V}^1}_{\bigcirc} {}_I \widetilde{\mathbb{1}}_\mu$$

$$\overbrace{\widetilde{\mathcal{V}} - {}^o\mathcal{V}^1}^\mu \underset{\bigcirc}{\text{○}}^o \mathcal{J}^k \xrightarrow{\text{ideal}} \text{Beh}$$

$$\underset{\bigcirc}{\text{○}}^o \mathcal{J}^{q+1} \sqsubset \left\{ \widetilde{\mathcal{V}}^j - {}^o\mathcal{V}^j \right\} \overset{U^{|q}}{\triangleright}_\infty \mathbb{K}$$

$$\underset{\bigcirc}{\text{○}}^o \mathcal{J}^{q+1} \ni \mathsf{I} = \sum_{|\mu| + |I| > q} \overbrace{\widetilde{\mathcal{V}} - {}^o\mathcal{V}^1}^\mu \mathcal{V}^I {}_I \mathsf{I}_\mu$$

$$\mu = 0 \Rightarrow |I| > q \Rightarrow \mathcal{V}^I = 0$$

$$\Rightarrow \mathsf{I} = \sum_{\mu \neq 0}$$

$$|\mu| + |I| > q \overbrace{\widetilde{\mathcal{V}} - {}^o\mathcal{V}^1}^\mu \mathcal{V}^I {}_I \mathsf{I}_\mu \in <\widetilde{\mathcal{V}}^j - {}^o\mathcal{V}^j> \overset{U^{|q}}{\triangleright}_\infty \mathbb{K}$$

$$\bigcap_{\mathsf{h} \in \mathsf{H}} \underset{\bigcirc}{\text{○}}^{\mathsf{h}} \mathcal{J}^{q+1} = 0$$