

$$\mathbb{K} \nabla_{\infty}^{\mathbf{h}^{p|q}} = \mathfrak{S} | \overset{\mathbf{h}^{p|q}}{\underset{\Delta_{\infty} \mathbb{K}}{\nabla}} = \frac{\overset{\mathbf{h}^{p|q}}{\underset{\Delta_{\infty} \mathbb{K}}{\nabla}} \leftarrow \mathfrak{b}_{\text{lin } \mathbb{K}}}{\mathfrak{b}_{\mathfrak{U}\mathfrak{U}} = \mathfrak{b}_{\mathfrak{U}\mathfrak{U}} + \frac{|\mathfrak{b}| |\mathfrak{U}|}{-1 \mathfrak{U} \mathfrak{U}}}$$

$$\overset{\mathbf{h}^{p|q}}{\underset{\Delta_{\infty} \mathbb{K}}{\nabla}} \bmod \underline{1} \mathfrak{b} \mathfrak{U} := \underline{1} \mathfrak{b} \mathfrak{U}$$

$$\mathbb{K} \nabla_{\infty}^{\mathbf{h}^{p|q}} \quad \ni \quad \mathfrak{b} = \mathfrak{b} \mathcal{V}^i \frac{\partial}{\partial \mathcal{V}^i} + \mathfrak{b} \mathbb{N}^k \frac{\partial}{\partial \mathbb{N}^k}$$

$$\begin{array}{ccc} & & \\ \downarrow & & \downarrow \\ \mathcal{V}^i | \mathbb{N}^k & & \mathfrak{b} \mathcal{V}^i | \mathfrak{b} \mathbb{N}^k \\ & & \\ \underbrace{\overset{\mathbf{h}^{p|q}}{\underset{\Delta_{\infty} \mathbb{K}}{\nabla}}}^{p:q} & \ni & \end{array}$$

$$\underbrace{\overset{\mathbf{h}^{p|q}}{\underset{\Delta_{\infty} \mathbb{K}}{\nabla}} \mathbf{h}^{p|q}}_{\Delta_{\infty} \mathbb{K}} = \mathbb{K} \nabla_{\infty}^{\mathbf{h}^{p|q}} = \overset{\mathbf{h}^{p|q}}{\underset{\Delta_{\infty} \mathbb{K}}{\nabla}} < \frac{\partial}{\partial \mathcal{V}^i} : \frac{\partial}{\partial \mathbb{N}^k} >$$

$$\mathbb{b}^o\mathcal{J}^{k+1}\subset {}^o\mathcal{J}^k$$

$$\operatorname{Ind} 0 \leqslant k$$

$$k=0 \text{ klar}$$

$$0 \leqslant k \curvearrowright j+1$$

$${}^o\mathcal{J}^{k+2}\ni \mathfrak{T}=\mathfrak{T}_\alpha:\mathfrak{T}_\alpha\in {}^o\mathcal{J}^{k+1}:\mathfrak{T}^\alpha\in {}^o\mathcal{J}$$

$$\Rightarrow \mathfrak{b}\mathfrak{T}=\underbrace{\mathfrak{b}\mathfrak{T}_\alpha}_{\in {}^o\mathcal{J}^k}\underbrace{\mathfrak{T}^\alpha}_{\in {}^o\mathcal{J}}+\underbrace{-1}_{\in {}^o\mathcal{J}^{k+1}}\underbrace{\mathfrak{T}_\alpha}_{\in {}^o\mathcal{J}^{k+1}}\underbrace{\mathfrak{b}\mathfrak{T}^\alpha}_{\in {}^o\mathcal{J}^{k+1}}$$

$$\mathfrak{b}=\sum_i \mathfrak{b}\mathcal{V}^i\frac{\partial}{\partial \mathcal{V}^i}+\sum_k \mathfrak{b}\mathfrak{N}^k\frac{\partial}{\partial \mathfrak{N}^k}$$

$$\mathbb{b}:=\mathfrak{b}-\sum_i \mathfrak{b}\mathcal{V}^i\frac{\partial}{\partial \mathcal{V}^i}-\sum_k \mathfrak{b}\mathfrak{N}^k\frac{\partial}{\partial \mathfrak{N}^k}\in \underbrace{\mathfrak{h}^{p|q}}_{\Delta_\infty \mathbb{K}}\overline{\square} \underbrace{\mathfrak{h}^{p|q}}_{\Delta_\infty \mathbb{K}}$$

$$\mathbb{b}\mathcal{V}^i=0=\mathbb{b}\mathfrak{N}^k\Rightarrow \mathbb{b}\mathfrak{N}^M\widehat{\mathcal{V}-{}^o\mathcal{V}}^\mu=0$$

$$\mathfrak{T}=\mathfrak{N}^I\underbrace{\sum_{|\mu|\leqslant n+1}\widehat{\mathcal{V}-{}^o\mathcal{V}}^{\mathbb{K}^o}\widehat{\bullet_{\mu} \mathfrak{U}_I}\widetilde{\mathfrak{I}}}_{|\mu|=n+2}+\sum_{|\mu|=n+2}\widehat{\mathcal{V}-{}^o\mathcal{V}}^{\mathbb{K}}_I\widetilde{\mathbb{I}}_\mu$$

$$\mathfrak{N}^I\sum_{|\mu|=n+2}\widehat{\mathcal{V}-{}^o\mathcal{V}}^{\mathbb{K}}_I\widetilde{\mathbb{I}}_\mu\in {}^o\mathcal{J}^{n+2}$$

$$\Rightarrow \mathbb{b}\mathfrak{T}=\mathbb{b}\mathfrak{N}^I\underbrace{\sum_{|\mu|\leqslant n+1}\widehat{\mathcal{V}-{}^o\mathcal{V}}^{\mathbb{K}^o}\widehat{\bullet_{\mu} \mathfrak{U}_I}\widetilde{\mathfrak{I}}}_{=0}+\mathbb{b}\mathfrak{N}^I\underbrace{\sum_{|\mu|=n+2}\widehat{\mathcal{V}-{}^o\mathcal{V}}^{\mathbb{K}}_I\widetilde{\mathbb{I}}_\mu}_{=0}=0$$