

$$\mathbb{L}_{\triangleleft \mathbb{K}} = \sum_m \mathbb{L}_{\triangleleft \mathbb{K}}^m \in \nabla \mathbb{K} \text{ Gel}$$

$$\mathbb{L}_{\triangleleft \mathbb{K}}^m = \left\{ \mathbb{L} \mathbf{x} \cdots \mathbf{x} \mathbb{L} \xrightarrow[\text{m-lin}]{\mathbb{L}} \mathbb{K} \right\} = \mathbb{K}_m^{\nabla} \mathbb{L}_{\triangleleft \mathbb{K}}$$

$$\mathbb{L}_{\triangleleft \mathbb{K}}^{p+q} \stackrel{\mathbf{x}}{\longleftarrow} \mathbb{L}_{\triangleleft \mathbb{K}}^p \mathbf{x} \mathbb{L}_{\triangleleft \mathbb{K}}^q$$

$$\left[\begin{smallmatrix} M\mathbb{L} \\ N\mathbb{L} \end{smallmatrix}\right] \stackrel{p}{\mathbb{I}}, \mathbf{x} \stackrel{q}{\mathbb{I}}_{\#} = \left(\begin{smallmatrix} M\mathbb{L} \\ \end{smallmatrix}\mathbb{I}'\right) \times \left(\begin{smallmatrix} \mathbb{L} \\ N\mathbb{I} \end{smallmatrix}\right)_{\#}$$

$$\mathbb{L}_{\triangleleft \mathbb{I}}^m = \left\{ \mathbb{L} \mathbf{x} \cdots \mathbf{x} \mathbb{L} \xrightarrow[\text{m-lin}]{\mathbb{L}} \mathbb{I} \right\} = \mathbb{K}_m^{\nabla} \mathbb{L}_{\triangleleft \mathbb{I}} = \underbrace{\mathbb{L}_{\triangleleft \mathbb{K}}^m}_{\mathbf{x}} \mathbb{I}$$

$$\mathbb{L}_{\triangleleft \mathbb{I}} = \sum_m \mathbb{L}_{\triangleleft \mathbb{I}}^m$$

$$\mathbb{L}_{\triangleleft \mathbb{I}}^{p+q} \stackrel{\mathbf{x}}{\longleftarrow} \mathbb{L}_{\triangleleft \mathbb{I}}^p \mathbf{x} \mathbb{L}_{\triangleleft \mathbb{I}}^{q'}$$