

$$\begin{array}{ccc} \mathbb{K}_m[\mathbb{N}] & & \mathbb{K}_{\mathbb{N}}[\mathbb{N}] \\ \downarrow \wr & & \downarrow \wr \\ \mathbb{K}\left[\begin{smallmatrix} n+m+1 \\ m \end{smallmatrix}\right] & & \mathbb{K}^{2^n} \end{array}$$

$$\mathbb{K}_m[\mathbb{N}] \ni \mathbb{L} \mapsto \mathbb{L} \wr^I \in \mathbb{K}\left[\begin{smallmatrix} n+m+1 \\ m \end{smallmatrix}\right]$$

$$\mathbb{L} = \sum_{|I|=m} \underbrace{\mathbb{L} \wr^I}_I \mathbb{L}$$

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