$$\begin{cases} \text{symm}^{\mathbb{K}^n} \underset{\frown}{\triangleright} \mathbb{K} \ni {}^{t^1 \cdots t^n} \urcorner \\ {}^{0t^2 \cdots t^n} \urcorner = 0 \end{cases} \Rightarrow \begin{cases} \bigvee_{\text{symm}}^{\mathbb{K}^n} \underset{\frown}{\triangleright} \mathbb{K} \ni {}^{t} \daleth \\ {}^{t^1 \cdots t^n} \urcorner = {}^{t^1 \cdots t^n} \daleth \underbrace{t^1 \cdots t^n} \end{cases}$$

$$\text{elementary} \prod_{i \geqslant 1} \overbrace{1 + t x_i} = \sum_{m \geqslant 0} t^m \, {}_m^x e$$

$${}_j e = \sigma_j$$

$$\mu = \mu_1 \mu_2 \cdots \mu_n$$

$$\varepsilon = 123 \cdots n$$

$$\mu \overset{t}{\varepsilon} = \mu_1 + 2 \mu_2 + 3 \mu_3 + \cdots + n \mu_n$$

$$ {}^{t}\text{ɿ} = \sum_{\mu \overset{t}{\varepsilon} \leqslant d} {}^{t}_{1}e^{\mu_1} \cdots {}^{t}_{n}e^{\mu_n} \; {}_{\mu}\mathbf{1} $$

$$ t = t^{1} \cdots t^{n} = t' \, t^{n} $$

$$ \mu' = \mu_1 \, \mu_2 \cdots \mu_{n-1} $$

$$ \varepsilon' = 123 \cdots n-1 $$

$$ t' \text{ symm } {}^{t'0}\text{ɿ} = \sum_{\mu' \overset{t}{\varepsilon'} \leqslant d} {}^{t'}_{1}e^{\mu_1} \cdots {}^{t'}_{n-1}e^{\mu_{n\text{-}1}} \; {}_{\mu}\mathbf{1} $$

$$ t \text{ symm } {}^{t}\text{ɿ} - \sum_{\mu' \overset{t}{\varepsilon'} \leqslant d} {}^{t}_{1}e^{\mu_1} \cdots {}^{t}_{n-1}e^{\mu_{n\text{-}1}} \; {}_{\mu}\mathbf{1} $$

$$ \deg {}^{t}_{1}e^{\mu_1} \cdots {}^{t}_{n\text{-}1}e^{\mu_{n\text{-}1}} = \mu' \overset{t}{\varepsilon'} \leqslant d $$

$$ {}^{t'0}\text{ɿ} - \sum_{\mu' \overset{t}{\varepsilon'} \leqslant d} {}^{t'0}_{1}e^{\mu_1} \cdots {}^{t'0}_{n\text{-}1}e^{\mu_{n\text{-}1}} \; {}_{\mu}\mathbf{1} = {}^{t'0}\text{ɿ} - \sum_{\mu' \overset{t}{\varepsilon'} \leqslant d} {}^{t'}_{1}e^{\mu_1} \cdots {}^{t'}_{n\text{-}1}e^{\mu_{n\text{-}1}} \; {}_{\mu}\mathbf{1} = 0 $$

$$ \underset{\text{Lem}}{\Longrightarrow} \; {}^{t}\text{ɿ} - \sum_{\mu' \overset{t}{\varepsilon'} \leqslant d} {}^{t}_{1}e^{\mu_1} \cdots {}^{t}_{n\text{-}1}e^{\mu_{n\text{-}1}} \; {}_{\mu}\mathbf{1} = \underbrace{t^{1} \cdots t^{n}}_{} {}^{t}_{2}\text{ɟ} \text{ symm } = {}^{t}_{n}e \; {}^{t}\text{ɟ} $$

$$ \deg {}^{t}\text{ɟ} \leqslant d - n \; \underset{\text{ind}}{\Longrightarrow} \; {}^{t}\text{ɟ} = \sum_{\mu \overset{t}{\varepsilon} \leqslant d\text{-}n} {}^{t}_{1}e^{\mu_1} \cdots {}^{t}_{n}e^{\mu_n} \; {}_{\mu}\text{ɬ} $$

$$ \Longrightarrow {}^{t}\text{ɿ} = \sum_{\mu' \overset{t}{\varepsilon'} \leqslant d} {}^{t}_{1}e^{\mu_1} \cdots {}^{t}_{n\text{-}1}e^{\mu_{n\text{-}1}} \; {}_{\mu}\mathbf{1} + \sum_{\mu \overset{t}{\varepsilon} \leqslant d\text{-}n} {}^{t}_{1}e^{\mu_1} \cdots {}^{t}_{n}e^{1+\mu_n} \; {}_{\mu}\text{ɬ} $$

$$ \mu_1 + 2\mu_2 + \cdots + n \underbrace{1 + \mu_n}_{} \leqslant d - n + n = d $$

$$ \text{homogeneous } \prod_{i \geqslant 1} \overbrace{1 - t x_i}^{-1} = \sum_{m \geqslant 0} t^{m} \; {}^{x}_{m}h $$

$$ \prod_{i \geqslant 1} \overbrace{1 - t x_i}^{-k} = \sum_{m \geqslant 0} t^{mk} \; {}^{x_1^k \cdots}_{m}h $$

$$ \text{power } {}^{x}p_{m} = \sum_{i \geqslant 1} x_i^{m} $$

$$\sum_{m \geqslant 0} t^m \, {}^{x}_{m}p = \sum_{m \geqslant 0} t^m \sum_{i \geqslant 1} x_i^m = \sum_{m \geqslant 0} \sum_{i \geqslant 1} (tx_i)^m = \sum_{i \geqslant 1} \sum_{m \geqslant 0} (tx_i)^m = \sum_{i \geqslant 1} (1 - tx_i)^{-1}$$