$$\mathbb{1} \sqsubset \mathbb{I}$$

$$\hat{\mathbb{1}} = \begin{cases} \mathbb{T} \in \mathbb{I} \\ \bigvee\limits_{\mathbb{V}^k \in \mathbb{1}}^{\text{poly}} ()^n + \sum\limits_k^n \mathbb{V}^k ()^k \\ \mathbb{T}^n + \sum\limits_k^n \mathbb{V}^k \mathbb{T}^k = 0 \end{cases}$$

$$\mathbb{T} \in \hat{\mathbb{1}} \Leftrightarrow \bigvee_{\text{mod}} < 1\colon \mathbb{L}^1 \cdot\cdot\, \mathbb{L}^n >_{\mathbb{1}} \sqsupset \mathbb{T} < 1\colon \mathbb{L}^1 \cdot\cdot\, \mathbb{L}^n >_{\mathbb{1}}$$

$$< 1\colon \mathbb{L}^1 \cdot\cdot\, \mathbb{L}^n >_{\mathbb{1}} \xleftarrow{\mathbb{T}} < 1\colon \mathbb{L}^1 \cdot\cdot\, \mathbb{L}^n >_{\mathbb{1}}$$

$$\Rightarrow: \quad \mathbb{T}^n + \sum_k^n \mathbb{V}^k\, \mathbb{T}^k = 0 \Rightarrow \mathbb{T}\,\mathbb{T}^{n-1} = \mathbb{T}^n = -\sum_k^n \mathbb{V}^k\, \mathbb{T}^k \Rightarrow \mathbb{T} < \mathbb{T}^k : k \in n >_{\mathbb{1}} \sqsubset < \mathbb{T}^k : k \in n >_{\mathbb{1}}$$

$$\Leftarrow: \quad \mathbb{T} < 1\colon \mathbb{L}^1 \cdot\cdot\, \mathbb{L}^n >_{\mathbb{1}} \sqsupset < 1\colon \mathbb{L}^1 \cdot\cdot\, \mathbb{L}^n >_{\mathbb{1}} \Rightarrow \mathbb{T}\,\mathbb{L}^i = \mathbb{V}^i_j\, \mathbb{L}^j$$

$$\Rightarrow \underbrace{\mathbb{T}\delta^i_j - \mathbb{V}^i_j}\, \mathbb{L}^j = 0 \Rightarrow 0 = \det \mathbb{T}\,\delta^{\cdot}_{\cdot} - \mathbb{V}^{\cdot}_{\cdot} = {}^{\mathbb{T}}\overbrace{\det()\,\delta^{\cdot}_{\cdot} - \mathbb{V}^{\cdot}_{\cdot}}$$

$$\hat{\mathbb{1}} \sqsubset \mathbb{I} \text{ subring}$$

$$\dot{\mathbb{T}} \in \hat{\mathbb{1}} \Rightarrow \dot{\mathbb{T}} < \dot{\mathbb{L}}^i >_{\mathbb{1}} \sqsubset < \dot{\mathbb{L}}^i >_{\mathbb{1}} \Rightarrow \dot{\mathbb{T}}\,\dot{\mathbb{L}}^i = \dot{\mathbb{V}}^i_j\, \dot{\mathbb{L}}^j$$

$$\underbrace{\mathbb{T} + \acute{\mathbb{T}}}\,\underbrace{\mathbb{L}^i \acute{\mathbb{L}}^k} = \underbrace{\mathbb{T}\mathbb{L}^i}\,\acute{\mathbb{L}}^k + \mathbb{L}^i\,\underbrace{\acute{\mathbb{T}}\acute{\mathbb{L}}^k} = \underbrace{\mathbb{V}^i_j \mathbb{L}^j}\,\acute{\mathbb{L}}^k + \mathbb{L}^i\,\underbrace{\acute{\mathbb{V}}^k_\ell \acute{\mathbb{L}}^\ell} = \mathbb{V}^i_j\,\underbrace{\mathbb{L}^j \acute{\mathbb{L}}^k} + \acute{\mathbb{V}}^k_\ell\,\underbrace{\mathbb{L}^i \acute{\mathbb{L}}^\ell} \in < \mathbb{L}^i\, \acute{\mathbb{L}}^k >_{\mathbb{1}}$$

$$\Rightarrow \underbrace{\mathbb{T} + \acute{\mathbb{T}}} < \mathbb{L}^i\, \acute{\mathbb{L}}^k >_{\mathbb{1}} \subset < \mathbb{L}^i\, \acute{\mathbb{L}}^k >_{\mathbb{1}}$$

$$\underbrace{\mathbb{T}\acute{\mathbb{T}}}\,\underbrace{\mathbb{L}^i \acute{\mathbb{L}}^k} = \underbrace{\mathbb{T}\mathbb{L}^i}\,\underbrace{\acute{\mathbb{T}}\acute{\mathbb{L}}^k} = \underbrace{\mathbb{V}^i_j \mathbb{L}^j}\,\underbrace{\acute{\mathbb{V}}^k_\ell \acute{\mathbb{L}}^\ell} = \underbrace{\mathbb{V}^i_j \acute{\mathbb{V}}^k_\ell}\,\underbrace{\mathbb{L}^i \acute{\mathbb{L}}^\ell} \in < \mathbb{L}^i\, \acute{\mathbb{L}}^k >_{\mathbb{1}} \Rightarrow \underbrace{\mathbb{T}\acute{\mathbb{T}}} < \mathbb{L}^i\, \acute{\mathbb{L}}^k >_{\mathbb{1}} \subset < \mathbb{L}^i\, \acute{\mathbb{L}}^k >_{\mathbb{1}}$$

$$\hat{\mathbb{1}} \sqsubset \mathbb{1} \text{ subfield}$$

$$\mathbb{T}^{n} + \sum_{k}^{n} \upharpoonleft\!\downharpoonright^{k} \, \mathbb{T}^{k} = 0 \Longrightarrow 0 = \mathbb{T}^{-n} \overbrace{\mathbb{T}^{n} + \sum_{k}^{n} \upharpoonleft\!\downharpoonright^{k} \mathbb{T}^{k}} = 1 + \sum_{k}^{n} \upharpoonleft\!\downharpoonright^{k} \, \mathbb{T}^{k-n} = 1 + \sum_{k}^{n} \upharpoonleft\!\downharpoonright^{k} \, \mathbb{T}^{-1\,n-k}$$