$$\daleth : \mathbb{l} \in \underset{c}{\forall} | \daleth$$

$$\daleth - \mathbb{l} \in \underset{0}{\forall} | \daleth \text{ bes}$$

$$\mathcal{D}_{\daleth} = \mathcal{D}_{\mathbb{l}} \Longrightarrow$$

$$\Vdash^{t} \ \vdash^{-t} = I + \int_{ds}^{0|t} \Vdash^{s} \underbrace{\mathbb{l} - \daleth} \ \vdash^{-s}$$

$$\daleth_s := \Vdash^{s} \underbrace{\mathbb{l} - \daleth} \ \vdash^{-s} \in \mathbb{C} | \daleth \text{ stop-stet } \bigwedge_{\daleth \in \daleth} \int_{ds}^{0|t} \daleth_s \daleth \in \daleth$$

$$\overline{\int_{ds}^{0|t} \daleth_s \daleth} \leqslant \int_{ds}^{0|t} \overline{\daleth_s \daleth} \leqslant \int_{ds}^{0|t} \underbrace{\overline{\daleth_s}}_{= \overline{\mathbb{l} - \daleth}} \overline{\daleth} = t \overline{\mathbb{l} - \daleth} \, \overline{\daleth} \Longrightarrow \int_{ds}^{0|t} \daleth_s \in \mathbb{C} | \daleth$$

$$\bigwedge_{\Vdash \in \mathcal{D}_{\daleth}} \bigwedge_{\vdash \in \mathcal{D}_{\daleth}} \Vdash \bowtie \underbrace{\daleth_s \vdash} = -\mathbb{l} \Vdash^{-s} \Vdash \bowtie \vdash^{-s} \ \vdash - \ \Vdash^{-s} \Vdash \bowtie \daleth \vdash^{-s} \ \vdash$$

$$= \overbrace{\partial_t \Vdash^{-t} \Vdash}^{s} \bowtie \vdash^{-s} \ \vdash + \ \Vdash^{-s} \Vdash \bowtie \overbrace{\partial_t \vdash^{-t} \vdash}^{s} = \overbrace{\partial_t \underbrace{\Vdash^{-t} \Vdash \bowtie \vdash^{-t} \vdash + \Vdash^{-t} \Vdash \bowtie \vdash^{-t} \vdash}}^{s} = \overbrace{\partial_t \Vdash \bowtie \underbrace{\Vdash^{t} \vdash^{-t} \vdash}}^{s}$$

$$\Longrightarrow \Vdash \bowtie \int_{ds}^{0|t} \daleth_s \daleth = \int_{ds}^{0|t} \Vdash \bowtie \daleth_s \daleth = \Vdash \bowtie \underbrace{\Vdash^{t} \vdash^{-t} \vdash} - \Vdash \bowtie \vdash = \Vdash \bowtie \underbrace{\Vdash^{t} \vdash^{-t} - I} \vdash$$

$$\mathbb{V}^{t}\;V^{-t}=\sum_{m}^{\mathbb{N}}\int_{dt_1\cdots dt_m}^{\overrightarrow{0|t}^{\,m}}\mathbb{L}_{t_1}\cdots\mathbb{L}_{t_m}$$

$$\mathbb{L}_s := \mathbb{V}^{s}\,\underbrace{\mathbb{L}-\mathbb{J}}\,\mathbb{V}^{-s}\;\in\;\mathbb{C}|\mathbb{J}$$

$$t\geqslant t_1\geqslant\cdots\geqslant t_m\geqslant 0$$

$$\bigwedge_{1\leqslant n}\mathbb{V}^{t}\;V^{-t}-\sum_{m}^{n}\int_{dt_1\cdots dt_m}^{\overrightarrow{0|t}^{\,m}}\mathbb{L}_{t_1}\cdots\mathbb{L}_{t_m}=\int_{dt_1\cdots dt_n}^{\overrightarrow{0|t}^{\,n}}\mathbb{L}_{t_1}\cdots\mathbb{L}_{t_n}\,\mathbb{V}^{t_n}\;V^{-t_n}$$

$$n=1:\quad \mathbb{V}^{t}\;V^{-t}-I=\int_{dt_1}^{0|t}\mathbb{V}^{t_1}\,\underbrace{\mathbb{L}-\mathbb{J}}\,V^{-t_1}=\int_{dt_1}^{0|t}\mathbb{L}_{t_1}\,\mathbb{V}^{t_1}\;V^{-t_1}$$

$$1\leqslant n\curvearrowright n+1:\quad \mathrm{LHS}_{n+1}=\mathrm{LHS}_n-\int_{dt_1\cdots dt_n}^{\overrightarrow{0|t}^{\,n}}\mathbb{L}_{t_1}\cdots\mathbb{L}_{t_n}\,\mathbb{V}^{t_n}\;V^{-t_n}$$

$$=\int_{dt_1\cdots dt_n}^{\overrightarrow{0|t}^{\,n}}\mathbb{L}_{t_1}\cdots\mathbb{L}_{t_n}\,\mathbb{V}^{t_n}\;V^{-t_n}\;\underbrace{\mathbb{V}^{t_n}V^{-t_n}-I}=\int_{dt_1\cdots dt_n}^{\overrightarrow{0|t}^{\,n}}\mathbb{L}_{t_1}\cdots\mathbb{L}_{t_n}\int_{dt_{n+1}}^{0|t_n}\mathbb{L}_{t_{n+1}}\,\mathbb{V}^{t_{n+1}}\;V^{-t_{n+1}}=\mathrm{RHS}_{n+1}$$

$$\left\|\mathbb{V}^{t}V^{-t}-\sum_{m}^{n}\int_{dt_1\cdots dt_m}^{\overrightarrow{0|t}^{\,m}}\mathbb{L}_{t_1}\cdots\mathbb{L}_{t_m}\right\|\leqslant\int_{dt_1\cdots dt_n}^{\overrightarrow{0|t}^{\,n}}\|\mathbb{L}_{t_1}\|\cdots\|\mathbb{L}_{t_n}\|\,\|\mathbb{V}^{t_n}\|\,\|V^{-t_n}\|\leqslant\|\mathbb{L}-\mathbb{J}\|^{n}\int_{dt_1\cdots dt_n}^{\overrightarrow{0|t}^{\,n}}1=\|\mathbb{L}-\mathbb{J}\|^{n}\frac{t_n}{n!}$$

$$V^{-t}=\sum_{n}^{\mathbb{N}}\int_{dt_1\cdots dt_n}^{\overrightarrow{0|t}^{\,n}}\mathbb{V}^{t_n-t}\,\underbrace{\mathbb{L}-\mathbb{J}}\,\mathbb{V}^{t_{n-1}-t_n}\,\underbrace{\mathbb{L}-\mathbb{J}}\cdots\mathbb{V}^{t_1-t_2}\,\underbrace{\mathbb{L}-\mathbb{J}}\,\mathbb{V}^{-t_1}$$