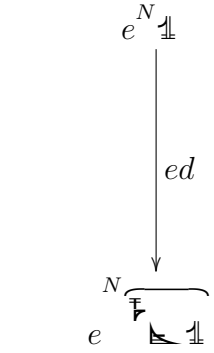


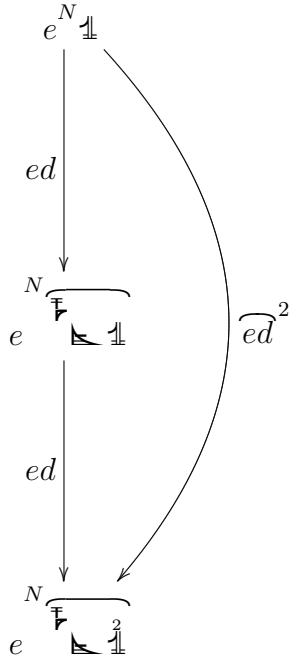
$$e^{N}\mathbb{1} \xleftarrow{\underline{ed}} e^{N}\mathbb{1}$$

$$\underline{ed}\ \dot{\pi} = e\underline{\vdash \bowtie \dot{\pi}}$$

$$\dot{\pi} \in {}^{N}\mathbb{1}$$

$$e^{N}\mathbb{1} = e\ {}^{N}\overbrace{\mathbb{1}\mathbb{1}}^{0}$$

$$\dot{\pi}{:}1 \in e^{N}\mathbb{1} \rtimes \mathbb{1} \xrightarrow[\mathrm{mod}\mathbb{1}]{} e^{N}\mathbb{1} \ni \dot{\pi}1$$



$$\Theta = e\underline{de \rtimes de} \in {}^{\vdash}\underline{e^{N}\mathbb{1}^{2}{}_{N}e} = \underline{e^{N}\mathbb{1}_{N}e} \rtimes \underline{{}^{\vdash}\mathbb{1}^{2}}$$

$$\Theta = e\overbrace{\underbrace{\quad}\underbrace{\quad}}\;-\overbrace{\underbrace{\quad}\underbrace{\quad}}\;=e\overbrace{\underbrace{\quad}\times\underbrace{\quad}}$$

$$e\underbrace{\quad}e=0$$

$$\underbrace{\quad}=\underbrace{\quad}=\underbrace{\quad}=\underbrace{\quad}+e\underbrace{\quad}\Rightarrow e\underbrace{\quad}=e\underbrace{\quad}e+e\underbrace{\quad}$$

$$\Theta = e\overbrace{\underbrace{\quad}\times\underbrace{\quad}}\ \text{mult}$$

$$\Theta\,\dot{\quad}=\underbrace{\quad}\underbrace{\quad}\,\dot{\quad}-\underbrace{\quad}\underbrace{\quad}\,\dot{\quad}-\underbrace{\quad}\,\dot{\quad}=e\overbrace{e\underbrace{\quad}\dot{\quad}}-e\overbrace{e\underbrace{\quad}\dot{\quad}}-e\overbrace{\underbrace{\quad}\underbrace{\quad}\dot{\quad}}$$

$$=e\overbrace{\underbrace{\quad}\underbrace{\quad}\dot{\quad}}+e\overbrace{\underbrace{\quad}\underbrace{\quad}\dot{\quad}}-e\overbrace{\underbrace{\quad}\underbrace{\quad}\dot{\quad}}-e\overbrace{\underbrace{\quad}\underbrace{\quad}\dot{\quad}}-e\overbrace{\underbrace{\quad}\underbrace{\quad}\dot{\quad}}$$

$$=e\underbrace{\quad}\overbrace{\underbrace{\quad}e\dot{\quad}+e\underbrace{\quad}\dot{\quad}}-e\underbrace{\quad}e\overbrace{\underbrace{\quad}e\dot{\quad}+e\underbrace{\quad}\dot{\quad}}$$

$$\underset{0}{=}e\underbrace{\quad}e\underbrace{\quad}e\,\dot{\quad}-e\underbrace{\quad}e\underbrace{\quad}e\,\dot{\quad}=e\overbrace{\underbrace{\quad}e\times\underbrace{\quad}e}\,\dot{\quad}$$

$$\underbrace{\quad}=\underbrace{\quad}=\underbrace{\quad}=\underbrace{\quad}+e\underbrace{\quad}$$