$$\mathbb{1} \text{ abel}$$

$$\mathbb{1} \in \mathbb{1}_{\mathbb{1}}\text{mod}_{\mathbb{1}}$$

$$\mathbb{1} \in \mathbb{1}^{\sharp} = \text{Hom}\,(\mathbb{1}{:}\mathbb{1})$$

$$\begin{array}{ccc}
\mathbb{1} \triangle^{Q} \mathbb{1}^{\mathbb{N}} & \xleftarrow{\;\mathbb{1}\;} & \mathbb{1} \triangle^{Q} \mathbb{1}^{\mathbb{N}} \\
\uparrow & & \uparrow \\
\mathbb{1} \triangle \mathbb{1}^{\mathbb{N}} & \xleftarrow{\;\mathbb{1}\;} & \mathbb{1} \triangle \mathbb{1}^{\mathbb{N}} \\
\sqcup & & \sqcup \\
\mathcal{I}_Q & \xleftarrow{\;\mathbb{1}\;} & \mathcal{I}_Q
\end{array}$$

$$\mathbb{1}\, \mathcal{I}_Q \subset \mathcal{I}_Q$$

$$\mathbb{1}\, \overbrace{\mathbb{1} \bowtie \underbrace{\mathbb{1} \bowtie \mathbb{1} - \mathbb{1} Q \mathbb{1}} \bowtie \mathbb{1}'} - \underbrace{\mathbb{1}\mathbb{1}} \bowtie \underbrace{\mathbb{1} \bowtie \mathbb{1} - \mathbb{1} Q \mathbb{1}}_{\in \mathcal{I}_Q} \bowtie \mathbb{1}' - \mathbb{1} \bowtie \underbrace{\mathbb{1} \bowtie \mathbb{1} - \mathbb{1} Q \mathbb{1}}_{\in \mathcal{I}_Q} \bowtie \underbrace{\mathbb{1}\mathbb{1}'}$$

$$= \mathbb{1} \bowtie \overbrace{\mathbb{1} \underbrace{\mathbb{1} \bowtie \mathbb{1} - \mathbb{1} Q \mathbb{1}}} \bowtie \mathbb{1}' = \mathbb{1} \bowtie \overbrace{\underbrace{\mathbb{1}\mathbb{1}} \bowtie \mathbb{1} + \mathbb{1} \bowtie \underbrace{\mathbb{1}\mathbb{1}} - \mathbb{1} \ltimes \underbrace{\mathbb{1} Q \mathbb{1}}}^{\in \mathcal{I}_Q} \bowtie \mathbb{1}'$$

$$\underset{\text{metr}}{=} \mathbb{1} \bowtie \overbrace{\underbrace{\mathbb{1}\mathbb{1}} \bowtie \mathbb{1} + \mathbb{1} \bowtie \underbrace{\mathbb{1}\mathbb{1}} - \underbrace{\mathbb{1}\mathbb{1}} Q \mathbb{1} - \mathbb{1} Q \underbrace{\mathbb{1}\mathbb{1}}} \bowtie \mathbb{1}' \in \mathcal{I}_Q$$

$$\mathbb{1}^{Q}\, \underbrace{\mathbb{1} \times \mathbb{1}'} = \underbrace{\mathbb{1}^{Q}\mathbb{1}} \times \mathbb{1}' + \mathbb{1} \times \underbrace{\mathbb{1}^{Q}\mathbb{1}'}$$

$$\daleth^{Q} \underbrace{c \rtimes \mathbf{1}} = \underbrace{\daleth^{Q} c} \rtimes \mathbf{1} + c \rtimes \underbrace{\daleth^{Q} \mathbf{1}}$$

$$\mathcal{C} = \begin{cases} c \in \mathbf{1} \triangle^{Q} \mathbb{1} \\ \daleth^{Q} \underbrace{c \rtimes \mathbf{1}} = \underbrace{\daleth^{Q} c} \rtimes \mathbf{1} + x \underbrace{\daleth^{Q} \mathbf{1}} \end{cases}$$

$$\daleth^{Q} \underbrace{\mathbf{1} \rtimes \mathbf{1}} = \daleth^{Q} \overbrace{\mathbf{1} \bowtie \mathbf{1} + \underbrace{\mathbf{1} \bowtie} \vDash \mathbf{1}} = \underbrace{\daleth^{Q} \mathbf{1}} \bowtie \mathbf{1} + \mathbf{1} \bowtie \underbrace{\daleth^{Q} \mathbf{1}} + \overbrace{\underbrace{\daleth^{Q} \mathbf{1}} \bowtie} \vDash \mathbf{1} + \underbrace{\mathbf{1} \bowtie} \vDash \underbrace{\daleth^{Q} \mathbf{1}} = \underbrace{\daleth^{Q} \mathbf{1}} \rtimes \mathbf{1} + \mathbf{1} \rtimes \underbrace{\daleth^{Q} \mathbf{1}} \Rightarrow \mathbf{1} \in \mathcal{C}$$

$$\acute{c} \in \mathcal{C} \Rightarrow \daleth^{Q} \overbrace{\underbrace{c \times \acute{c}} \rtimes \mathbf{1}} = \daleth^{Q} \overbrace{c \rtimes \underbrace{\acute{c} \rtimes \mathbf{1}}} \underset{c \in \mathcal{C}}{=} \underbrace{\daleth^{Q} c} \rtimes \underbrace{\acute{c} \rtimes \mathbf{1}} + c \rtimes \overbrace{\daleth^{Q} \underbrace{\acute{c} \rtimes \mathbf{1}}}$$

$$\underset{\acute{c} \in \mathcal{C}}{=} \overbrace{\underbrace{\daleth^{Q} c} \times \acute{c}} \rtimes \mathbf{1} + c \rtimes \overbrace{\underbrace{\daleth^{Q} \acute{c}} \rtimes \mathbf{1} + \acute{c} \rtimes \underbrace{\daleth^{Q} \mathbf{1}}} = \overbrace{\daleth^{Q} \underbrace{c \times \acute{c}}} \rtimes \mathbf{1} + \underbrace{c \times \acute{c}} \rtimes \underbrace{\daleth^{Q} \mathbf{1}} \Rightarrow c \times \acute{c} \in \mathcal{C} \Rightarrow \mathcal{C} = \mathbf{1} \triangle^{Q} \mathbb{1}$$