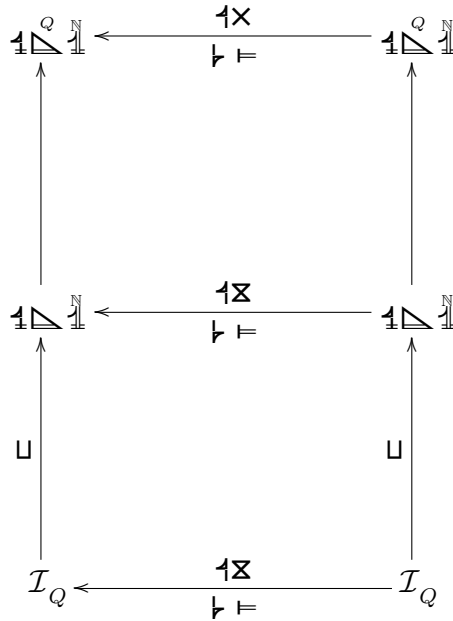


$\mathbb{1}$ abel

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

$$\vdash \in \mathbb{1} = \text{Hom}(\mathbb{1} : \mathbb{1})$$



$$\vdash \vDash I_Q \subset I_Q$$

$$\mathcal{J} = \frac{1 \in I_Q}{\vdash \vDash 1 \in I_Q}$$

$$1 \in \mathcal{J} \Rightarrow \vdash \vDash \overline{1 \times 1} = \overline{\vdash 1} \underset{\in I_Q}{=} 1 - \overline{1 \times \vdash \vDash 1} \underset{\in I_Q}{=} \in I_Q \Rightarrow \mathbb{1} \triangleleft \mathbb{1}^{\mathbb{N}} \mathcal{J} = \mathcal{J} \text{ left ideal}$$

$$\begin{aligned} \vdash \vDash \overline{1 \times \overline{1 \times 1}} &= \overline{\vdash 1 \times 1} - \overline{1 \times \vdash \vDash \overline{1 \times 1}} \\ &= \overline{\vdash 1 \times 1} + \overline{1 \times 1 \times \vdash \vDash 1} - \overline{1 \times \vdash 1 \times 1} = \overline{1 \times 1 \times \vdash \vDash 1} \\ &\Rightarrow \vdash \vDash \overline{1 \times 1 - 1 \times 1 \times 1} = \overline{1 \times 1 - 1 \times 1} \times \overline{\vdash \vDash 1} \underset{\in I_Q}{=} \in I_Q \end{aligned}$$

$$\Rightarrow I_Q \ni \overline{1 \times 1 - 1 \times 1} \times 1 \underset{\in I_Q}{=} \in \mathcal{J} \Rightarrow \overline{1 \times 1 - 1 \times 1} \mathbb{1} \triangleleft \mathbb{1}^{\mathbb{N}} \subset \mathcal{J} \Rightarrow \mathcal{J} = I_Q$$