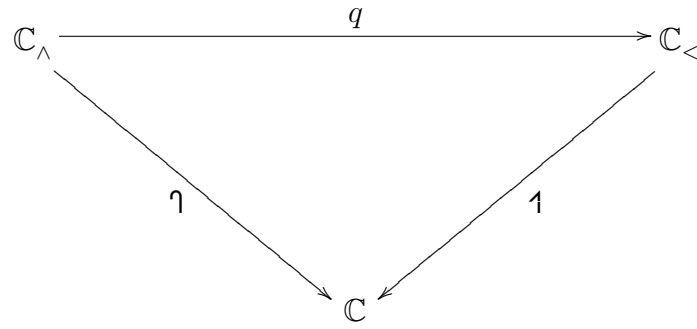


$$\mathbb{C}_\wedge \xrightarrow[\text{hol}]{q} \mathbb{C}_<$$

$$\tau \rtimes q = e^{2\pi i \tau}$$



$$\tau \underline{\gamma} = \tau \rtimes q \underline{1}$$

$$\int^{\underline{\iota}} \underline{\gamma} / \underline{\gamma} = \int^{\underline{\iota} \rtimes q} \underline{1} / \underline{1}$$

$$\tau \underline{\gamma} = \tau \underline{q} \tau \rtimes q \underline{1} \Rightarrow \tau \overline{\underline{\gamma} / \underline{\gamma}} = \tau \underline{q} \tau \rtimes q \overline{\underline{1} / \underline{1}}$$

$$\Rightarrow \text{LHS} = \int_{dt}^I \underline{t} \underline{\iota} \overline{\underline{\gamma} / \underline{\gamma}} = \int_{dt}^I \underline{t} \underline{\iota} \underline{t} \underline{\iota} \tau \rtimes q \overline{\underline{1} / \underline{1}} = \int_{dt}^I \underline{t} \underline{\iota} \rtimes q \overline{\underline{1} / \underline{1}} = \text{RHS}$$

$$\underline{t} \underline{\iota}_r = t + \frac{\log r}{2\pi i}$$

$$-\frac{1}{2} \leq t \leq \frac{1}{2}$$

$$\underline{t} \underline{\iota}_r \rtimes q = \exp 2\pi i \left(t + \frac{\log r}{2\pi i} \right) = r e^{2\pi i t}$$

$$\frac{1}{2\pi i} \int^{\underline{\iota}_r} \underline{\gamma} / \underline{\gamma} = \frac{1}{2\pi i} \int^{\underline{\iota}_r \rtimes q} \underline{1} / \underline{1} \rightsquigarrow \nu_0(1) = \nu_\infty(1)$$