$$ {}^{X}e^{-t_0\mathcal{P}^0}_{\acute{X}} = \int_{d\Sigma}^{|\Sigma|=t} \int_{\mathbb{X}|\,\dot{\partial}\,\Sigma = \dot{X}}^{d\mathbb{X}} e^{-\int^{\Sigma}\mathcal{P}(\mathbb{X})} $$

$$ \dashv\!\!\!\ni \bowtie \underbrace{e^{-t_0\mathcal{P}^0}}\, \acute{\ni} = \int^{dX} {}^{X}\ni^{*}\, \overbrace{{}^{X}e^{-t_0\mathcal{P}^0}\acute{\ni}} = \int^{dX} {}^{X}\ni^{*} \int^{d\acute{X}} {}^{X}e^{-t_0\mathcal{P}^0}_{\acute{X}}\, {}^{\acute{X}}\acute{\ni} = \int^{dX}\int^{d\acute{X}} {}^{X}\ni^{*}\, {}^{\acute{X}}\acute{\ni} \int_{d\Sigma}^{|\Sigma|=t} \int_{\mathbb{X}|\,\dot{\partial}\,\Sigma = \dot{X}}^{d\mathbb{X}} e^{-\int^{\Sigma}\mathcal{P}(\mathbb{X})} $$

$$ \mathcal{Q}\urcorner^{\sharp}_{-\infty}S = \mathcal{Q}\urcorner_{-\infty}S \,\triangle^{2}_{\mu}\, \mathbb{C} $$

$$ \mathcal{Q}\urcorner^{\sharp}_{-\infty}S \cup \acute{S}\;\; \mathcal{Q}\urcorner^{\sharp}_{-\infty}S \bowtie \mathcal{Q}\urcorner^{\sharp}_{-\infty}\acute{S} $$

$$ \mathcal{Q}\urcorner^{\sharp}_{-\infty}\underbrace{-S} = \overbrace{\mathcal{Q}\urcorner^{\sharp}_{-\infty}S}^{\sharp} $$

$$ \mathcal{Q}\urcorner^{\sharp}_{-\infty}\varnothing = \mathbb{C} $$

$$ S \xleftarrow[\text{diffeo}]{\wr} \acute{S} \Longrightarrow \mathcal{Q}\urcorner^{\sharp}_{-\infty}S \xleftarrow[\text{isometric}]{\mathcal{Q}\urcorner^{\sharp}_{-\infty}\,\wr} \mathcal{Q}\urcorner^{\sharp}_{-\infty}\acute{S} $$

$$ \mathcal{Q}\urcorner^{\sharp}_{-\infty}\Sigma \in \mathcal{Q}\urcorner^{\sharp}_{-\infty}\partial\Sigma $$

$$ \partial\Sigma = \partial\acute{\Sigma} \Longrightarrow \partial\underbrace{\Sigma - \acute{\Sigma}} = \varnothing \Longrightarrow \mathcal{Q}\urcorner^{\sharp}_{-\infty}\Sigma \bowtie \mathcal{Q}\urcorner^{\sharp}_{-\infty}\acute{\Sigma} = \mathcal{Q}\urcorner^{\sharp}_{-\infty}\underbrace{\acute{\Sigma} - \Sigma} \in \mathbb{C} $$

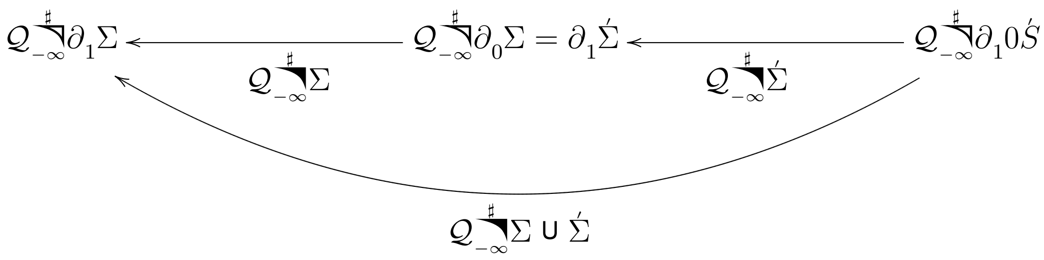
$$ \dim \mathcal{Q}\urcorner^{\sharp}_{-\infty}S = \mathcal{Q}\urcorner^{\sharp}_{-\infty}S \times \mathbb{T} \in \mathbb{C} \Longleftarrow \partial\,(S \times \mathbb{T}) = \varnothing $$

$$ \mathrm{Diff}\;(S) \to \mho|\, \mathcal{Q}\urcorner^{\sharp}_{-\infty}S $$

$$ \mathrm{tr}\; \mathcal{Q}\urcorner^{\sharp}_{-\infty}\,\wr = \mathcal{Q}\urcorner^{\sharp}_{-\infty}S \underset{\wr}{\times} \mathbb{I} $$

$$ \partial\Sigma = \partial_1\Sigma - \partial_0\Sigma \Longrightarrow \mathcal{Q}\urcorner^{\sharp}_{-\infty}\partial_1\Sigma \xleftarrow{\mathcal{Q}\urcorner^{\sharp}_{-\infty}\Sigma} \mathcal{Q}\urcorner^{\sharp}_{-\infty}\partial_0\Sigma $$

$$ \overset{\varphi}{\mathcal{Q}}\urcorner^{\sharp}_{-\infty}\underset{\acute{\varphi}}{\Sigma} = \int_{d\Phi}^{\varphi|\acute{\varphi}} \exp\left(-\int^{\Sigma}\mathcal{L}\,(\Phi)\right) $$


$\mathcal{Q}^{\sharp}_{-\infty}\partial_1\Sigma$
$\mathcal{Q}^{\sharp}_{-\infty}\partial_0\Sigma = \partial_1\acute{\Sigma}$
$\mathcal{Q}^{\sharp}_{-\infty}\partial_1 0\acute{S}$
$\mathcal{Q}^{\sharp}_{-\infty}\Sigma$
$\mathcal{Q}^{\sharp}_{-\infty}\acute{\Sigma}$
$\mathcal{Q}^{\sharp}_{-\infty}\Sigma \cup \acute{\Sigma}$