$$\mathbb{L} \xleftarrow[\text{ell pos}]{\mathbb{L}} \mathcal{D}_{\mathbb{L}} \sqsubset \mathbb{L} \text{ bosonic}$$

$$\mathbb{L} = \mathbb{L}_{\text{pp}} = \frac{{}_k\mathbb{L}^k}{k \in \mathbb{N}} \text{ pure point spectrum}$$

$$\zeta_s^{\mathbb{L}} = \sum_{k>0} \frac{1}{{}^s_k\mathbb{L}^k}$$

$$\int_{dt}^{0|\infty} t^{s-1} \underbrace{\text{tr } \mathfrak{e}^{-\mathbb{L}t} - \text{ dim ker } \mathbb{L}} = \Gamma_s \, \zeta_s^{\mathbb{L}}$$

$$\text{tr } \mathfrak{e}^{-\mathbb{L}t} = \sum_k \mathfrak{e}^{-{}_k\mathbb{L}^k t} = \sum_{k>0} \mathfrak{e}^{-{}_k\mathbb{L}^k t} + \sum_{{}_0\mathbb{L}^0 = 0} 1 = \sum_{k>0} \mathfrak{e}^{-{}_k\mathbb{L}^k t} + \text{ dim ker } \mathbb{L}$$

$$\text{tr } \mathfrak{e}^{-\mathbb{L}t} - \text{ dim ker } \mathbb{L} = \sum_{k>0} \mathfrak{e}^{-{}_k\mathbb{L}^k t}$$

$$k > 0 \Longrightarrow 0|\infty \ni t \xrightarrow[\text{trafo}]{} {}_k\mathbb{L}^k t = \tau \in 0|\infty$$

$$\int_{dt}^{0|\infty} t^{s-1} \mathfrak{e}^{-{}_k\mathbb{L}^k t} = {}^{1-s}_k\mathbb{L}^k \int_{dt}^{0|\infty} {}^{s-1}\overbrace{{}_k\mathbb{L}^k t}\, \mathfrak{e}^{-{}_k\mathbb{L}^k t} = {}^{1-s}_k\mathbb{L}^k \; {}^{-1}_k\mathbb{L}^k \int_{d\left({}_k\mathbb{L}^k t\right)}^{0|\infty} {}^{s-1}\overbrace{{}_k\mathbb{L}^k t}\, \mathfrak{e}^{-{}_k\mathbb{L}^k t} = {}^{-s}_k\mathbb{L}^k \int_{d\tau}^{0|\infty} \tau^{s-1} \mathfrak{e}^{-\tau} = \frac{\Gamma_s}{{}^s_k\mathbb{L}^k}$$