

$$\int_0^\infty d\tau_2 \, \tau_2^{s-2} \int_{-1/2}^{1/2} d\tau_1 \, \tau_2^{d/2} \sum_{m,n} e^{-2\pi\tau_2 \mathcal{M}^2} e^{2\pi i \tau_1 m^T n}$$