

$$\frac{1}{2} \int_{\mathcal{F}} d\mu \, \Gamma_{d,d}(G, B; \tau, \bar{\tau}) = \text{Res}_{s=1} \left[\int_0^\infty d\tau_2 \, \tau_2^{s-2+d/2} \sum_{m^T n=0} e^{-2\pi\tau_2 \mathcal{M}^2} \right]$$