

\mathbb{C} flat complex wave Fock space

$$\int_{d\xi}^{\mathbb{C}^r} \int_{d\eta}^{\mathbb{C}^r} \mathbf{e}^{-\xi|\xi - \eta|} \xi^* \eta \gamma = \int_{dt} t^{2r-1} \mathcal{K}_0(2t) \int_{du}^{S_1} t^u \gamma$$