
REEBHU BHATTACHARYYA (CANCELLED), University of Michigan, Ann Arbor

Isotropic States on Kähler Manifolds

We will define classes of (semi-classical) wave packets (whose wavefront set is a single point) on pre-quantized compact Kähler manifolds and describe a symbol calculus for them. This is a generalization of squeezed/coherent states, which have been studied extensively, especially in Euclidean space. We will generalize these further to isotropic states (whose wavefront set is an isotropic submanifold) which we define as a superposition of such wave packets, and then obtain a symbol calculus for them. Finally, we will describe our results on the overlap and Hermitian propagation of these states.