

Asymptotic expansions for symmetric spaces

H. Upmeyer

In geometric quantization of symplectic manifolds, asymptotic expansions of star products and other operators depending on “Planck’s constant” play an important role. In this talk we present multi-variable asymptotic expansions for the Berezin transform and the star product (of Wick and anti-Wick type) in the complex-analytic setting of hermitian symmetric spaces. The compact type (Riemann sphere, projective space, Grassmannians) and the non-compact type (unit disk, unit ball, matrix balls) are treated in a uniform way.

The talk is based on joint work with M. Engliš.