

Im Oberseminar

Deformationsquantisierung

spricht am **11.12.2015 um 14 Uhr c.t.**,

im Seminarraum 00.009 (Physik Ost)

THORSTEN REICHERT

über das Thema:

Symmetry Reduction in Deformation Quantization and the Kirwan Map

Given a Marsden-Weinstein reduced symplectic manifold, one can, by BRST-cohomological methods, construct a map from star products with quantum momentum maps (equivariant star products) on the unreduced manifold to star products on the reduced one. Seeing that equivariant star products are classified by equivariant cohomology and that star products are classified by de Rham cohomology, we will be interested in the induced map of the reduction map on cohomology. It will turn out to be an analogue of the well-known Kirwan map, but on the cohomology of the Cartan model of equivariant cohomology.