Im Oberseminar

Deformationsquantisierung

spricht am **26.06.2015 um 14 Uhr c.t.**,

im Seminarraum 00.009 (Physik Ost)

Thorsten Reichert

über das Thema:

Classification of equivariant star products on symplectic manifolds

Building upon existing classification results for star products and invariant star products on symplectic manifolds (M, ω), we will discuss how to refine those to take quantum momentum maps into account. After introducing all relevant concepts, such as star products, equivalences and equivariant cohomology, we will sketch the construction of a bijection

$$\mathrm{Def}_{\mathfrak{g}}(M, \omega) \longrightarrow \mathrm{H}^2_{\mathfrak{g}}(M) \, [\![\nu]\!]$$

from the set of equivalence classes of equivariant star products on M to it's second equivariant cohomology.

gez. Stefan Waldmann