

Im Oberseminar

## Deformationsquantisierung

spricht am **21. 10. 2016 um 14 Uhr c.t.**,

im Seminarraum 00.009 (Physik Ost)

**PHILIPP SCHMITT**

über das Thema:

### Construction of Star Products on Coadjoint Orbits II

In this talk I want to present a particular construction of a star product on coadjoint orbits due to Karabegov. It is known that for a semisimple Lie group, the Gutt star product doesn't restrict to coadjoint orbits, necessitating in a more complicated construction. We will introduce a subspace of the space of functions on the Lie group, that is also important for Harish Chandra theory. We may turn this space into a noncommutative algebra by giving a bijection to a quotient of the universal enveloping algebra. Furthermore it turns out that under certain conditions we can push forward this algebra to functions on the coadjoint orbit, yielding the desired star product.

gez. Stefan Waldmann