

Im Oberseminar

Deformationsquantisierung

spricht am **04.05.2018 um 14 Uhr c.t.**,

im Seminarraum 00.009 (Physik Ost)

ANDREAS KRAFT

über das Thema:

Involutions for reduced quantum algebras via the BRST approach

In deformation quantization, one way to formulate the quantization of a reduced space M_{red} is the BRST approach. We will stay in the well known setting of the classical Marsden-Weinstein reduction and recall the basics of the classical and quantum BRST algebras. Considering the corresponding cohomologies then leads to a star product $*_{\text{red}}$ on the reduced space that is induced by the reduction.

The new question I will address in the talk is if the BRST reduction gives in addition a natural $*$ -involution for the reduced star product. Therefore, we will look at first for suitable involutions on the BRST algebras and then consider the cotangent bundle of Lie groups as first example.

gez. Stefan Waldmann