

Im Oberseminar

Deformationsquantisierung

spricht am **11.11.2016 um 14 Uhr c.t.**,

im Seminarraum 00.009 (Physik Ost)

CHIARA PAGANI

über das Thema:

A sheaf theoretic description of quantum principal bundles

I will describe an algebraic approach to the study of principal bundles based on sheaves of Hopf-Galois algebra extensions. I will report on a general theory of deformation via Drinfeld twists of (sheaves of) Hopf-Galois extensions and show how to construct in this way examples of quantum principal bundles. A twist on the Hopf algebra of the structure group of the bundle generates a new bundle with twisted fibers. A twist on a group of bundle automorphisms generates a bundle with twisted base space.

Based on joint works with L. Cirio and with P. Aschieri, P. Bieliavsky and A. Schenkel.

gez. Stefan Waldmann