

Im Oberseminar

Deformationsquantisierung

spricht am **23. 5. 2014 um 10 Uhr c.t.**,

im Seminarraum 00.009 (Physik Ost)

MATTHIAS SCHÖTZ

über das Thema:

A Fréchet-Topology on the Weyl algebra over Hilbert spaces II

The Weyl algebra over a Hilbert space \mathcal{H} can be interpreted as a deformation of the symmetric algebra over \mathcal{H} , where the usual symmetric tensor product \vee is replaced by a non-commutative product \star_b , depending on a bilinear form b .

In this talk, I will present a way to extend the inner product of \mathcal{H} to its symmetric tensor algebra such that the product \star_b becomes continuous in the locally convex topology created by the extension of all continuous inner products on \mathcal{H} . It will turn out that under some additional requirements, this topology is the coarsest possible.

gez. Stefan Waldmann