

Im Oberseminar

Deformationsquantisierung

spricht am **06.07.2018 um 14 Uhr c.t.**,

im Seminarraum 00.009 (Physik Ost)

MATTHIAS SCHÖTZ

über das Thema:

The centralizer algebra of abstract O^* -algebras

An abstract O^* -algebra is a tuple of a $*$ -algebra \mathcal{A} endowed with an order on its Hermitian elements that can be described via a set of positive linear functionals on \mathcal{A} . Such abstract O^* -algebras can e.g. be used to study the $*$ -representations of locally convex $*$ -algebras or other types of $*$ -algebras.

In this talk I will present a general method to construct a new, possibly better-behaved, $*$ -algebra of adjointable left centralizers out of an arbitrary abstract O^* -algebra. Special cases of this construction yield a natural way to associate a C^* -Algebra to every abstract O^* -algebra, a reasonable notion of spectrum of elements and hopefully even a spectral theorem for abstract O^* -algebras.

gez. Stefan Waldmann