Deformationsquantisierung

Am 11. 1. 2019 spricht um 14 Uhr c.t.

Seminarraum SE 31

Mahdi Hamdan

Morita theory for locally convex algebras

Algebraic objects are often examined, by considering their category of representations. So the question arises, whether two algebras have equivalent categories of representations, rather than them being isomorphic. We call two algebraic objects are Morita equivalent, if their categories of representations are. To that extend, Morita theory for purely algebraic objects, like rings, are already well understood. In practice however, one often encounters additional topological properties. In my talk, we will consider the category LCAlg of locally convex algebras. As it is well known from the theory of rings, one can introduce a notion of Morita equivalence by using the notion of a conveniently defined bicategory. By introducing a well behaved tensor product on LCAlg one gets a monoidal category, from which one can construct a bicategory, whose objects being algebras and 1-morphisms being bimodules over these algebras.

gez. Stefan Waldmann