

Seminarankündigung

Deformationsquantisierung

Am 26. 6. 2020 spricht um 14 Uhr c.t.

<https://bbb.durates.net/b/ste-2va-uez>

KEVIN RUCK

Hochschild Cohomology and Morita Equivalence

Morita equivalence can be considered as an extension of the notion “isomorphic algebras” from the commutative case to the noncommutative case. In fact, it is known that Morita equivalent algebras share a long list of common algebraic properties, the so called Morita invariants. In this talk we want to focus on a very specific Morita invariant, the Hochschild Cohomology. We will start by giving a comprehensive introduction to the theory of Hochschild Cohomology and its applications in the study of formal deformations of algebras. After defining Morita equivalence in a very hands on fashion, we will then present the well established theorem, which shows that the Hochschild Cohomologies of Morita equivalent algebras are in fact isomorphic, hence adding it to the list of Morita invariants as claimed before.

gez. Stefan Waldmann