Deformationsquantisierung

Am 9. 10. 2020 spricht um 14 Uhr c.t.

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

Kevin Ruck (JMU Würzburg)

Hochschild Cohomology and Morita Equivalence II: Picard Groups and their Actions

We now know that there is a well established theorem stating that Morita equivalent algebras have isomorphic Hochschild cohomologies. In the first part of this talk we want to formulate this fact form a more categorical point of view by defining the Picard groupoid and the Hochschild category. In a next step we want to introduce the Picard groups, which are the endomorphism groups for a given object of the Picard groupoid and since the objects are algebras, we can talk about the Picard group of an algebra. In the last part of this talk we will investigate how the Picard group of an algebra acts on the Hochschild cohomology of the same algebra and we will give a closed formula for it in the case of a commutative algebra.

gez. Stefan Waldmann