

Seminarankündigung

Deformationsquantisierung

Am 24. 1. 2020 spricht um 14 Uhr c.t.

Seminarraum SE 30

FELIX MENKE (JMU WÜRZBURG)

Vector Bundles in Phase Space Reduction

For example in coisotropic reduction one obtains a reduced phase space M/\mathcal{F} by considering the leaf space of a suitable foliation \mathcal{F} of a manifold M . In this talk we will describe how the vector bundles over such reduced phase spaces look like in terms of vector bundles over the manifold M : Here we have to construct a vector bundle over M/\mathcal{F} having given a vector bundle over M . For this, we develop a notion of parallel transport in the direction of leaves of a foliation using only partially defined covariant derivatives. In a next step, we define a suitable category of vector bundles over M which turns out to be equivalent to the category of vector bundles over M/\mathcal{F} .

gez. Stefan Waldmann