

Seminarankündigung

## Deformationsquantisierung

**Am 8. 2. 2019 spricht um 14 Uhr c.t.**

Seminarraum SE 31

MARISA SCHULT

From Symplectic to Kähler Geometry  
–Quotients–

The Marsden-Weinstein Reduction Theorem is a well understood way of equipping the quotient space of a symplectic manifold by a (real) Lie group action once again with a symplectic structure. One might now ask what additional properties of such an action would suffice to ensure that a similar construction is possible in the Kähler case. To shed some light on a viable answer we first recall the notions of Lie group actions and momentum maps. The main part focuses on the construction of a compatible Kähler structure on the quotient of a Kähler manifold by a suitable (real) Lie group action.

gez. Stefan Waldmann