Seminarankündigung

Deformationsquantisierung

Am 18. 10. 2019 spricht um 14 Uhr c.t.

Seminarraum SE 31

Marisa Schult

Kähler reduction for arbitrary regular values and the shifting trick

In this talk, I will shortly revise the basic notation for the Marsden-Weinstein Reduction Theorem for symplectic manifolds before expanding the underlying theory to a new type of manifold. I will also point out important constructions used in this process and finally re-introduce the resulting reduction theory for Kähler manifolds. Even though this reduction procedure is known for both cases it is as yet not clear if a related construction from symplectic geometry, namely the shifting trick, also works in the Kähler situation. I will explain the shifting trick construction in both settings. However, it turns out that there is a difference between the two cases. Even though there exists a symplectomorphism between the resulting quotient manifolds it can be shown that this map is not isomorphic.

gez. Stefan Waldmann