Deformationsquantisierung

Am 7. 2. 2020 spricht um 14 Uhr c.t.

Seminarraum SE 30

Michael Heins

Strict deformation quantization: from convergence to continuity

With the flourish of formal deformation quantization a lot of formal star products have been constructed. In recent years examples were found, in which the star product can be understood as convergent in a suitable topology However, these are few and far between with no unified theory in sight. We discuss the easiest non trivial example of such a strict deformation in the form of the Weyl-Moyal star product on $T^*\mathbb{R}^n$. Furthermore we argue why asking for continuity is ultimately the better question and outline a general strategy to approach these problems with. On the way we will discuss recent results by Waldmann, Stapor and Winklmaier-Peran.

gez. Stefan Waldmann