Julius-Maximilians-
UNIVERSITÄT
WÜRZBURG

MUΦX
Lehrstuhl X

Announcement

Seminar on Deformation Quantization and Geometry

20.11.2026 at 14:00 s.t.

Online on Zoom

Kaichuan Qi (Penn State University)

Magnetic cotangent groupoids

The cotangent bundle of a Lie groupoid carries a canonical symplectic groupoid structure. We study how this structure can be deformed to accommodate magnetic symplectic forms. We introduce magnetic cotangent groupoids and characterize when the magnetic symplectic forms are multiplicative. We then explain how these structures arise naturally from central extensions of Lie groupoids via symplectic reduction. As an application, we discuss the Kac–Moody central extension of the loop group and its connection to an equivariant gerbe representing the Alekseev–Malkin–Meinrenken class.

Zoom Link: `https://uni-wuerzburg.zoom-x.de/j/64069592952`

Invited by Madeleine Jotz