Julius-Maximilians-
UNIVERSITÄT
WÜRZBURG

MUΦX
Lehrstuhl X

Announcement

Seminar on Deformation Quantization and Geometry

22.05.2026 at 14:00 s.t.

Seminarroom SE 31

Pablo Nicolás Martínez

Convexity, localization, and surjectivity in cosymplectic geometry

Cosymplectic structures are natural instances of regular Poisson structures, notably appearing in critical sets of b^m Poisson structures. As the odd-dimensional counterpart of symplectic forms, their study unveils interesting phenomena typically unavailable for broader classes of Poisson structures. In this talk we present the cosymplectic counterparts of the classical convexity, localization, and surjectivity results in symplectic geometry. For this purpose, we introduce the notion of equivariant cosymplectic structure and show its relation to cosymplectic reduction following Albert. Our proofs are strongly based on the notion of *symplectization*, yielding a close link between symplectic and cosymplectic structures. This is joint work with Eva Miranda.

Invited by Madeleine Jotz