Julius-Maximilians-
UNIVERSITÄT
WÜRZBURG

Lehrstuhl X

Announcement

Seminar on Deformation Quantization

28. 4. 2023 at 2pm CEST

Seminarroom SE 30

Chiara Esposito (Univ. Salerno)

Reduction in L_∞ terms

In this talk we propose a reduction scheme for multivector fields phrased in terms of L_∞-morphisms. First, using geometric properties of the reduced manifolds we perform a Taylor expansion of multivector fields, which allows us to build up a suitable deformation retract of DGLA's. As a second step, we construct a Poisson analogue of the Cartan model for equivariant de Rham cohomology. As a consequence we prove the existence of a curved L_∞ morphism between equivariant multivector fields and multivector fields on the reduced manifolds that coincides with the standard Marsden-Weinstein reduction.

Invited by Stefan Waldmann