

Announcement

Seminar on Deformation Quantization and Geometry

November 17th 2023 at 14:00 s.t.

Seminarroom SE 30

ANTONIO MAGLIO (UNIVERSITÀ DEGLI STUDI DI SALERNO)

Shifted contact structures on differentiable stacks

We propose a definition of $+1$ -shifted contact structure on a differentiable stack, thus laying the foundations of $+1$ -shifted contact geometry. As a side result, we will show that the kernel of a multiplicative 1-form on a Lie groupoid (might not exist as a vector bundle of Lie groupoids but) it always exists as a vector bundle of differentiable stacks and it carries a stacky version of the curvature of a distribution. Prequantum bundles over $+1$ -shifted symplectic groupoids provide examples of $+1$ -shifted contact structures. Time permitting, we will discuss 0 -shifted contact structures which are, in some aspects, surprisingly more complicated than $+1$ -shifted ones. This is joint work with A. G. Tortorella and L. Vitagliano.

Invited by Francesco Cattafi, Madeleine Jotz