

Announcement

Oberseminar Deformationsquantisierung und Geometrie

10th of October 2023 at 2:30pm CEST/CES

Room SE30

PING XU (PENN STATE UNIVERSITY)

Derived differentiable manifolds

One of the main motivations behind derived differential geometry is to deal with singularities arising from zero loci or intersections of submanifolds. Both cases can be considered as fiber products of manifolds which may not be smooth in classical differential geometry. Thus we need to extend the category of differentiable manifolds to a larger category in which one can talk about "homotopy fiber products". In this talk, we will discuss a solution to this problem in terms of dg manifolds. The talk is mainly based on a joint work with Kai Behrend and Hsuan-Yi Liao.

Invited by Madeleine Jotz