Im Oberseminar

Deformationsquantisierung

spricht am **26.02.2015 um 14:00,**

im Seminarraum 00.009 (Physik Ost)

Antonio de Nicola

über das Thema:

Sasakian nilmanifolds

Sullivan's theory of models can be used to get topological invariants of manifolds that are stronger than the de Rham cohomology ring.

One defines a model for a manifold as a commutative differential graded algebra (CDGA) quasi-isomorphic to the algebra of differential forms. It is known that the minimal model of a compact nilmanifold is given by the Chevalley-Eilenberg complex of the corresponding Lie algebra. Recently, in his PhD thesis A. Tievsky constructed a finite-dimensional model of a compact Sasakian manifold. Comparing models for nilmanifolds and Sasakian manifolds, we give a classification of compact Sasakian nilmanifolds.

This is joint work with B. Cappelletti-Montano, J. C. Marrero and I. Yudin

gez. Stefan Waldmann