

24.11.2009

Einladung

Am Mittwoch, dem 16. Dezember 2009, Seminarraum N 2, 16.00 Uhr

spricht

PhD Bernardo Uribe Jongbloed, Bogota

String Topology for Orbifolds

Zusammenfassung:

String Topology accounts for the study of the topological properties of the spaces of loops or paths of some specific kind on a manifold. When one studies the topological properties of the space of free loops on an orbifold (a manifold endowed with the action of a finite group of symmetries) one encounters interesting relations with the Chen-Ruan cohomology of the orbifold and with the Hochschild cohomology ring of certain differential graded rings of singular cochains associated to the orbifold.

In this talk I will start by reviewing some results on the string topology for manifolds and I will continue by explaining how we have generalized some of them to the case of orbifolds.

Then I will explain how the string topology for orbifolds relate to the Chen-Ruan cohomology for orbifolds and I will finish by stating some recent results that tell what is the relation with the Hochschild cohomology of certain differential graded ring associated to the orbifold.

Auf diesen Vortrag wird besonders hingewiesen

Joachim Cuntz, Dekan