Universität Hamburg
DER FORSCHUNG | DER LEHRE | DER BILDUNG

Fakultät für Mathematik, Informatik und Naturwissenschaften

Kolloquium über Reine Mathematik

Einladung zu einem Vortrag

Dienstag, 10. November 2015

17 Uhr s.t., Geom H4

Prof. Dr. Tobias Dyckerhoff

(Hausdorff Center for Mathematics, Bonn)

Relative Calabi-Yau structures

Abstract:

The basic operation of oriented cobordism is to glue two oriented manifolds along a common boundary component to produce a new oriented manifold. In this talk, we discuss a generalization of this procedure to noncommutative geometry: we introduce the concept of a Calabi-Yau structure on a functor of differential graded categories which can be interpreted as an analog of an oriented manifold with boundary. We illustrate and application of the resulting theory in the context of topological Fukaya categories of surfaces.

Vor dem Vortrag (ab 16.30 Uhr) stehen im Raum 327 Kaffee und Tee bereit.