Universität Hamburg
DER FORSCHUNG | DER LEHRE | DER BILDUNG

Kolloquium über Reine Mathematik

Einladung zu einem Vortrag

Dienstag, 23. Oktober 2018

17 Uhr s.t., Geom H4

Prof. Dr. Tobias Dyckerhoff
(Universität Hamburg)

Triangulated surfaces in triangulated categories

Abstract:

The symmetries inherent in the structure constants of a Frobenius algebra can be used to associate certain numerical invariants of oriented surfaces. These numbers behave nicely when chopping surfaces into pieces - in technical terms they form a 2-dimensional open topological field theory. In particular, the invariant of a given surface can be computed in terms of a chosen triangulation.

In this talk, we explain how certain symmetries in the foundations of homological algebra behave like a Frobenius algebra to the extent that they define invariants of oriented surfaces.

Based on joint work with Mikhail Kapranov.

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