

Fakultät für Mathematik



Mathematisches Kolloquium

EINLADUNG

Prof. Dr. Ingo Runkel

(Universität Hamburg)

“Conformal field theory and categorification”

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Abstract:

The mathematical investigation of quantum field theories has led to a wealth of new directions and insights. This is in particular true for topological field theories and for conformal field theories in two dimensions. Field theories can be understood as functors from a suitable category of manifolds to a suitable category of vector spaces. In this talk I would like to illustrate some of the algebraic objects one meets when trying to classify these functors. In the case of conformal field theory, for example, one is led to consider a categorified version of modules over a ring.

**Zeit: Mittwoch, 27. Mai 2015
15.45 Uhr Kaffeejause,
anschließend 16.15 Uhr Vortrag**

**Ort: Fakultät für Mathematik,
Oskar-Morgenstern-Platz 1,
Sky-Lounge**

Nils Carqueville
Harald Rindler