



Kolloquium über Reine Mathematik

Einladung zu einem Vortrag

Dienstag, 8. Januar 2019

17 Uhr s.t., Geom H4

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Quantum field theory, geometry and geometric analysis

Abstract:

Quantum field theory has developed many models with a rich and intricate mathematical structure. They typically possess a noncompact group of symmetries, like conformal invariance, and the advanced models couple fields of different types. Examples are the action functional of the supersymmetric nonlinear sigma model and of superstring theory. These models provide sources of inspiration for geometry and challenges for geometric analysis. The lecture will explore some of these aspects at the example of a mathematical version of the supersymmetric nonlinear sigma model.

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