Universität Hamburg
DER FORSCHUNG | DER LEHRE | DER BILDUNG

Fakultät für
Mathematik, Informatik
und Naturwissenschaften

Kolloquium über Reine Mathematik

Einladung zu einem Vortrag

Dienstag, 26. April 2016

17 Uhr s.t., Geom H4

Prof. Dr. Jörg Teschner
(Universität Hamburg und DESY)

Integrable models and the geometric Langlands correspondence

Abstract:

The Hitchin integrable system has appeared in various problems of mathematics and mathematical physics. Quantisation of the Hitchin system produces a family of commuting differential operators on the moduli space of holomorphic vector bundles on Riemann surfacs. Important aspects of the so-called geometric Langlands correspondence can be reformulated as an answer to certain versions of the problem to find the joint spectrum of the commuting differential operators. In work in progress we are developing a more explicit description of this correspondence using techniques from conformal field theory.

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