



SFB Colloquium

TIME:

22 Oct 2007, 15:00 - 18:00

LOCATION:

HU-Berlin
Invalidenstraße 42
Nordbau, Hörsaal 8
10115 Berlin

PROGRAM:

15:00 - 16:00 **Dr. Niklas Beisert (AEI Potsdam)**

Spectral Curve for the Heisenberg Ferromagnet and AdS/CFT

16:00 - 16:30 Coffee Break

16:30 - 17:30 **PD Dr. Alexander Schmitt (Universität Duisburg-Essen)**

On quiver representations

A quiver is a combinatorial object which consists of vertices and arrows

between the vertices. In representation theory, one studies representations of quivers. These assign to each vertex a finite dimensional complex vector space and to each arrow a linear map from the

vector space at the tail of the arrow to the vector space at its head. If one fixes the dimensions of the vector spaces, one obtains nice moduli

spaces for the isomorphism classes of quiver representations.

One can go one step further and associate to each vertex a coherent sheaf

and to each arrow a sheaf homomorphism. The theory of moduli spaces for

these objects has been recently developed by

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Alvarez-Consul/Garcia-Prada,
Gothen/King, and the speaker. It has interesting links to gauge
theory and
representations of fundamental groups.
In the talk, we will present several aspects of the above topics.

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