



Markus Reineke (Wuppertal) **"Smooth models of quiver moduli"**

TIME:

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LOCATION:

Freie Universitaet Berlin
Institut fuer Mathematik
Arnimallee 3, Rm. 119

Quiver moduli parametrize isomorphism classes of (poly-)stable representations of quivers up to isomorphism. Analogous to the case of moduli of vector bundles, there is a distinction between a (numerically defined) coprime case, with quite well-understood non-singular projective moduli, and a non-coprime case, leading either to non-compact, or to highly singular moduli. The aim of the talk is to formulate and study a closely related moduli problem, reminiscent of Hilbert schemes, which always produces smooth projective moduli. Their topology and geometry (in particular, their Betti numbers) will be described. A relation of smooth models to Donaldson-Thomas type invariants will be discussed.

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