



SFB-Seminar

ZEIT:

25.11.2008, 16:00 Uhr - 19:00 Uhr

ORT:

Konrad-Zuse-Zentrum für Informationstechnik Berlin
Takustrasse 7
14195 Berlin-Dahlem

PROGRAMM:

16:00 - 17:00 **Martijn Wijnholt (AEI)**

Hitchin's equations and phenomenology

17:00 - 17:30 Kaffeepause

17:30 - 18:30 **Dr. David Ploog (Hannover)**

McKay correspondence for Kleinian and Fuchsian singularities via spherical twists

We consider Kleinian and Fuchsian singularities, which are related to classical McKay correspondence (Kleinian case) and to mirror symmetry in the guise of Arnold's strange duality (special Fuchsian singularities). They come with lattices obtained by resolution and compactification. We show how these lattices naturally arise as K-groups of triangulated categories of geometric origin. The point of view of derived geometry helps to get a better grip on classical items like the Coxeter element and also provides more conceptual proofs. This theory is related to the Homological Mirror Symmetry in the Landau-Ginzburg setting.

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