

Lutz Hille

Cluster algebras with three vertices and the Markov equation

TIME:

30 Oct 2006, 16:00 - 18:00

LOCATION:

FU-Berlin, Institut für Mathematik
Arnimallee 3, Rm. 119

The classical Markov equation plays a role in the classification of exceptional vector bundles on the projective plane: the solutions are the possible ranks of exceptional vector bundles. A similar equation appears in the theory of cluster algebras. The value of characterizes cluster-acyclic triples . We give a short introduction to cluster algebras and explain why the Markov equation appears. Moreover, we relate both problems to the corresponding derived categories.

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