



Diane Maclagan

"Moduli of representations of the McKay quiver"

TIME:

29 Nov 2005, 14:00 - 16:00

LOCATION:

FU-Berlin, Institut für Mathematik
Arnimallee 6, Rm 025/026

When G is a finite subgroup of $SL(3)$ the moduli space M_θ of representations of the McKay quiver is a crepant resolution of the quotient singularity C^n/G . I will describe joint work with Alastair Craw and Rekha Thomas giving an explicit description of the component of M_θ that is birational to C^n/G for abelian G in $GL(n, \mathbb{C})$ for arbitrary n as a (not necessarily normal) toric variety. A special case of the moduli of McKay quiver representations is Nakamura's G -Hilbert scheme, and our explicit description allows us to construct pathological examples of these schemes.

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