

The McKay correspondence and noncommutative desingularizations

Eleonore Faber
University of Leeds

The classical McKay correspondence relates representations of a finite group G in $SL(2, C)$ to the cohomology of the minimal resolution of the Kleinian singularity C^2/G . In these lectures we will review the classical correspondence, its relation to so-called noncommutative resolutions of singularities, and some recent developments.