



*Institute of Mathematical Research
Department of Mathematics*

GEOMETRY SEMINAR

Moduli of framed sheaves on the minimal resolution of the A_1 singularity

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Abstract

We study ADHM description of moduli of framed sheaves on the minimal resolution of the A_1 singularity. ADHM data are collections of matrices and we show that moduli of stable ADHM data are bijective to moduli of certain framed sheaves on the minimal resolution. There exists a wall and chamber structure on the space of stability conditions for the ADHM data. We have two distinguished chambers such that corresponding moduli spaces coincide with moduli spaces of framed torsion free sheaves on the minimal resolution and the quotient stack of the affine plane by the cyclic group of order two respectively.

Date: December 8, 2014 (Monday)

Time: 4:00 – 5:00pm

Place: Room 210, Run Run Shaw Bldg., HKU

All are welcome