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Symplectic resolutions for Higgs moduli spaces

Thursday, June 22, 2017 12:10 PM (30 minutes)

Abstract

In this talk I will present some recent work on the algebraic symplectic geometry of the singular moduli spaces of Higgs bundles of degree 0 and rank n on a compact Riemann surface X of genus g. In particular, I will show how to to prove that such moduli spaces are symplectic singularities, in the sense of Beauville, and admit a projective symplectic resolution if and only if $g = 1$ or $(g, n) = (2, 2)$. These results are an application of a recent paper by Bellamy and Schedler [BS16] via the so-called Isosingularity Theorem.

Presenter: TIRELLI, Andrea (Imperial College London)