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Geometric Langlands applications of boundary conditions for maximally supersymmetric Yang Mills theory

Friday, 1 July 2016 16:30 (50 minutes)

I will discuss the properties of boundary conditions of maximally supersymmetric Yang Mills theory compactified on a Riemann surface. Depending on the details of the compactification, this produces BAA branes (i.e. complex Lagrangian submanifolds) or BBB branes (i.e. hyper-holomorphic sheaves) for the two-dimensional sigma model in the Hitchin moduli space. I will discuss the map from four-dimensional boundary conditions to two-dimensional boundary conditions and the action of S-duality on the system. Mathematically, this construction provides collections of Geometric Langland dual pairs of objects.

Summary

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