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Monopoles, Vortices, and Vermas

Tuesday 28 June 2016 15:30 (25 minutes)

In three-dimensional gauge theories, monopole operators create and destroy vortices. I will explore this idea in the context of three-dimensional gauge theories with $N=4$ supersymmetry in the presence of an omega background. This leads to a finite version of the AGT correspondence, involving an action of the quantized Coulomb branch on the equivariant cohomology of vortex moduli spaces. (Work with T.Dimofte, D.Gaiotto, J.Hilburn, & H-C.Kim)

Summary

Presenter: BULLIMORE, Mathew (Oxford)

Session Classification: Plenary session