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The Nahm Transform on Taub-NUT Space

This talk is based on joint work with Sergey Cherkis and Mark Stern. The Nahm transform is a correspondence between the moduli space of Anti-Self Dual connections with square integrable curvature, also called instantons, and other moduli spaces constructed using representation theoretic information. In the case of the Taub-NUT space, generic instantons correspond to representations of Cherkis bows. The purpose of this talk is to give an outline of this correspondence, focusing on explaining how to construct a bow representation from an instanton on Taub-NUT space.