# Compact moduli of noncommutative projective planes

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Noncommutative projective planes are deformations of the abelian category of coherent sheaves on the projective plane, and are associated to certain deformations of the polynomial ring in three variables. In this talk I will explain a way to obtain a compactified moduli of noncommutative projective planes via geometric invariant theory, and its relation to some classical geometry of elliptic curves with level three structures. This talk is based on a joint work with Tarig Abdelgadir and Kazushi Ueda.