

Abstract

Speaker: Klaus Hulek (Hannover)

Title: Stable cohomology of compactifications of A_g

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It is a famous result of Borel that the cohomology of A_g stabilizes. This was generalized to the Satake compactification by Charney and Lee. In this talk we will discuss whether the result can also be generalized to toroidal compactifications. As we shall see this cannot be expected for the second Voronoi compactification, but we shall show that the cohomology of the perfect cone compactification does stabilize. We shall also discuss partial compactifications, in particular the matroidal locus. This is joint work with Sam Grushevsky and Orsola Tommasi.