Algebra Seminar

On Stabilization of Classical Groups

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Abstract: The K_1 stabilization of general linear groups is one of the problem related to Serre's problem on projective modules. It was first studied by Bass—Milnor—Serre during mid-sixties. They showed that the surjective bound is d+1, where d is the Krull dimension of the base ring, and conjectured that the injective bound is d+2. Shortly after that it was proved by L.N. Vaserstein. Later we see analog results for other classical groups in the work of A. Suslin, V. Kopeiko, Vaserstien, A. Bak, G. Tang, V. Petrov, W. vander Kallen et al. including the recent break through work by J.Fasel, R.A. Rao and R.G. Swan. In this talk we shall discuss results on injective stabilization for a big class of classical grou

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