ALGEBRA AND NUMBER THEORY
SEMINAR

Projective modules over an affine algebra

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Abstract: The study of finitely generated projective modules along the lines indicated by J-P. Serre and H. Bass is outlined; its continuation by the three step Eisenbud-Evans program is then described. The development of the first part of the EE-program by Mohan Kumar, Pavaman Murthy, Madhav Nori's Euler classes vision and Bhatwadekar-Sridharan's completion of it, the functorial French approach of Barge-Morel, and Morel's later ideas are touched. The thesis of Andrei Suslin which touches on the second part of the EE program, his conjecture at his Helsinki talk in 1978, and Jean Fasel's breakthrough work on threefolds, and recent developments of the work of Fasel-Rao-Swan in higher dimension are surveyed.

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