

*Department of Mathematics,
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Math 209 - Number Theory

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Serre weights and affine Grassmannians

Abstract:

A conjecture of Serre (now a theorem of Gross, Edixhoven, and Coleman-Voloch) classifies pairs of weights where one finds modular forms congruent modulo a prime p in terms of local behavior at p . We discuss a generalization of this conjecture in higher rank. A key step in our work is the study of a certain subscheme of Gaitsgory's A^1 affine Grassmannian which shares properties with some affine Springer fibers. This is joint work with B. Le Hung, B. Levin, and S. Morra.

Host: Claus Sorensen

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