

Mathematics Colloquium

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Wesleyan

**A Generalization of
Serre's Conjecture on
Galois Representations**

I will discuss the question of parameterizing mod- p representations of the absolute Galois group of \mathbb{Q} . For one dimensional representations this is handled by the classical Kronecker-Weber theorem. Serre's conjecture describes certain two dimensional representations in terms of modular forms. Ash, Doud, Sinnott, and I have proposed a generalization to n -dimensional representations. I will discuss this conjecture and present some computational evidence for it.

Wednesday, February 23

4:00 pm

204 Smith Hall