Title: Moduli stacks of local Galois representations

Abstract: In this talk I will describe an ongoing project with Toby Gee,
whose goal, for any finite extension K of Q_p and any choice
of dimension d, is to construct an equidimensional Artin stack
over F_p whose F_p-bar points parameterize homomorphisms
of G_K into GL_n(F_p-bar) .   Our construction will give a
qualitative explanation of certain phenomena observed in the
theory of reduction of potentially semistable Galois representations.
It will also have relations to the Breuil--Mezard conjecture, and other
aspects of the p-adic Langlands program, as I hope to explain.

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