

# Deforming Galois representations

Ravi Ramakrishna ([ravi@math.cornell.edu](mailto:ravi@math.cornell.edu))

*Cornell University*

*Department of Mathematics*

*Ithaca, NY 14853-4201 USA*

**Abstract.** Representations of the absolute Galois group of the rational numbers have played an important role in classical arithmetic questions. In this talk we'll survey how the lifting of a mod  $p$  Galois representations to a  $p$ -adic Galois representation has applications to the conjectures of Serre and Fontaine-Mazur.

