

MATH 699H (MAST 833G)
Galois Representations
Fall 2014

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Topics: The course will present the theory of continuous representations of the absolute Galois group of a number field with values in a finite dimensional \mathbb{Q}_p -vector space. More precisely we will study:

1. Examples: Galois representations attached to elliptic curves and modular forms.
2. The restriction of a global Galois representation to a decomposition group at $l \neq p$ Weil-Deligne representations.
3. The restriction of a global Galois representation to a decomposition group at p . Hodge-Tate representations.
4. Hodge-Tate representations attached to elliptic modular forms.