

## **abstract**

GALOIS REPRESENTATIONS AND AUTOMORPHIC FORMS SEMINAR

Topic:

Speaker:

Affiliation:

Date:

Time/Room:

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The Bernstein center plays a role in the representation theory of locally profinite groups analogous to that played by the center of the group ring in the representation theory of finite groups. When  $F$  is a finite extension of  $\mathbb{Q}_p$ , we discuss the Bernstein center of the category of smooth representations of  $\mathrm{GL}_n(F)$  over the Witt vectors of an algebraically closed field of characteristic  $l$  not equal to  $p$ . We will prove results on the basic structure of the Bernstein center, and describe a conjecture that has implications for the local Langlands correspondence in algebraic families.