

**February 15:** David Helm (University of Texas at Austin), “The Bernstein center of the category of smooth  $W(k)[GL_n]$ -modules.”

Let  $F$  be a finite extension of  $Q_p$ , and let  $k$  be an algebraically closed field of characteristic  $\ell$  different from  $p$ . We give a decomposition of the category of smooth  $W(k)[GL_n(F)]$ -modules into blocks. We also prove basic results about the structure of the center of each block, and give a conjectural description of this center, which we can prove in many cases, in terms of the local Langlands correspondence.