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Laura Rider* (lrider1@math.lsu.edu) and **Pramod N. Achar**. *Parity sheaves on the affine Grassmannian and coherent sheaves on the nilpotent cone*. Preliminary report.

Arkhipov, Bezrukavnikov, and Ginzburg proved a derived equivalence relating constructible sheaves on the affine Grassmannian for an algebraic group G and coherent sheaves on the nilpotent cone for the Langlands dual group. I will speak about this relationship in the modular setting. In particular, I will discuss the key role played by the theory of parity sheaves as developed by Juteau, Mautner, and Williamson. (Received February 18, 2013)