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Laura J Rider* (laurajoy@mit.edu) and **Pramod Achar**. *Parity sheaves on the affine Grassmannian and the Langlands dual Springer resolution.*

Through geometric Satake, the local intersection cohomology on the affine Grassmannian encodes the weight multiplicities of corresponding representations of the Langlands dual group over any field. Several such derived versions of geometric Satake have been proven in characteristic 0 in work of Bezrukavnikov–Finkelberg and Arkhipov–Bezrukavnikov–Ginzburg. I'll discuss these equivalences and recent progress on modular versions of these theorems. This is joint work with Pramod Achar. (Received September 22, 2015)