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Laura Rider* (lrider1@math.lsu.edu). *A derived Springer correspondence for mixed perverse sheaves*. Preliminary report.

Recall that the Springer correspondence relates representations of the Weyl group to perverse sheaves on the nilpotent cone. We explain how to extend this to a derived equivalence between modules over a graded ring related to W and a certain category of mixed perverse sheaves on the nilpotent cone. (Received January 24, 2012)