1146-20-440 Matthew Hogancamp and Shotaro Makisumi\* (makisumi@math.columbia.edu), New York, NY 10027. Ext-enhanced monoidal Koszul duality for GL<sub>2</sub>.

The Hecke category participates in a monoidal Koszul duality exchanging it with (Langlands-dual) "free-monodromic tilting sheaves." Motivated by a recent conjecture of Gorsky-Hogancamp on HOMFLYPT link invariants, I propose to enhance this monoidal Koszul duality with an additional grading. I will provide some evidence for this enhancement for GL<sub>2</sub>, working in the language of my joint work with Achar, Riche, and Williamson. (Joint with Matthew Hogancamp.) (Received January 28, 2019)