

1126-20-303

Pramod N. Achar, Shotaro Makisumi* (makisumi@stanford.edu), **Simon Riche** and **Geordie Williamson**. *Modular Koszul duality for Kac–Moody groups*.

I will introduce (or more realistically, give a rough sense of) a monoidal category of “free-monodromic tilting sheaves” on a Kac–Moody flag variety. The main result is that this category is equivalent to the monoidal category of parity sheaves on the Langlands dual Kac–Moody flag variety. This result implies the Riche–Williamson conjecture on characters of tilting modules of reductive groups. This is joint work with Pramod Achar, Simon Riche, and Geordie Williamson. (Received January 16, 2017)