

1081-14-370

R Paul Horja* (horja@math.okstate.edu), Department of Mathematics, Oklahoma State University, Stillwater, OK 74078. *Shadows and Gerbes over Toric Stacks*.

I will describe certain modules over the orbifold cohomology and the K-theory of toric Deligne-Mumford stacks whose algebraic construction is inspired by toric mirror symmetry and my joint work with Lev Borisov on the better behaved GKZ system. Some applications and geometrical considerations will be presented. (Received February 14, 2012)