

1064-14-296

**Nicole Marie Lemire\*** (nlemire@uwo.ca), Department of Mathematics, University of Western Ontario, London, Ontario N5Y 2T3, Canada, and **Ajneet Dhillon** and **Indranil Biswas**. *The Essential Dimension of the Moduli Stack of Vector Bundles over a Curve.*

In joint work with Indranil Biswas and Ajneet Dhillon, we determine upper bounds on the essential dimension of the moduli stack of parabolic vector bundles over a curve. When there is no parabolic structure, we improve our previously known upper bound on the essential dimension of the usual moduli stack of vector bundles over a curve. Our calculations also give lower bounds on the essential dimension of the semistable locus inside the usual moduli stack. (Received September 13, 2010)