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Nicole Marie Lemire^{*} (nlemire^Quwo.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)