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On the essential dimension of the stack of bundles

I will discuss some joint work with Nicole Lemire on calculating the essential dimension of the moduli stack of SL_n-bundles over a smooth projective curve in characteristic zero. Our calculations rely heavily on the recent work of Brosnan–Reichstein–Vistoli. The other ingredient we need is the calculation of the Brauer group of the moduli space which is due to Balaji–Biswas–Gabber–Nagaraj. Both of these ingredients will be described in the talk.