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Jim Brown* (jim1b@clermson.edu). *Eisenstein series on $GU(3,3)$ and non-trivial torsion in Shafarevich-Tate groups.*

Applications of recent work of Pitale-Saha-Schmidt on a pullback formula from $GU(3,3)$ to $GSp(4) \times GL(2)$ will be discussed. In particular, we will outline how one can use this formula to give a lower bound on a particular twist of a Shafarevich-Tate group attached to a two dimensional modular Galois representation. (Received August 02, 2011)