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**Steven V Sam\*** ([ssam@math.mit.edu](mailto:ssam@math.mit.edu)) and **Jerzy Weyman**. *Pieri resolutions for classical groups*.

The first construction of pure free resolutions in characteristic 0 was given by Eisenbud, Fløystad, and Weyman using the representation theory of the general linear group. These are the resolutions of a special case of what we call Pieri maps, and we generalize their construction to all Pieri maps. These Pieri resolutions have explicit combinatorial descriptions in terms of Young diagrams. I will give some background related to Boij–Söderberg cones which motivated the original construction and explain the explicit description of the Pieri resolutions. Time permitting, I will also discuss a conjectural equivariant analogue of Boij–Söderberg cones and some partial results. (Received March 21, 2010)