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Luigi Ferraro* (ferrar1@wfu.edu), **Ellen Kirkman**, **Frank Moore** and **Robert Won**. *Hopf algebra actions on some AS regular algebras of small GK dimension.*

The classical Chevalley-Shephard-Todd Theorem gives a characterization of when a group acting linearly on the commutative polynomial ring has a ring of invariants that is isomorphic to a polynomial ring. Understanding when group actions (or more generally, Hopf actions) on AS regular algebras give AS regular invariant rings has proven to be a difficult problem. We provide some new examples of Hopf actions on some AS regular algebras such that the ring of invariants is also AS regular. (Received August 31, 2018)