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Luigi Ferraro, Ellen Kirkman and W. Frank Moore\* (moorewf@wfu.edu), 1834 Wake Forest Road, Department of Mathematics and Statistics, Winston-Salem, NC 27109, and Robert Won. Semisimple reflection Hopf algebras of dimension sixteen.

For each nontrivial semisimple Hopf algebra H of dimension 16 over  $\mathbb{C}$ , the smallest dimension inner-faithful representation of H acting on an AS regular algebra A of dimension 2 or 3, homgeneously and preserving the grading, is determined. Each invariant subring  $A^H$  is determined. When  $A^H$  is also AS regular (and thus providing an instance where the conclusion of a generalization of the Chevalley-Shephard-Todd Theorem holds) we say that H is a reflection Hopf algebra for A. (Received January 29, 2019)