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Artin-Schelter Regular Algebras From Dual Reflection Groups.

Let G be a group that coacts on an Artin-Schelter regular algebra A homogeneously and inner-faithfully. When the identity component A_e is also Artin-Schelter regular, providing a generalization of the Shephard-Todd-Chevalley Theorem, we say that G is a dual reflection group for A . We provide two examples of dual reflection groups of order 16, and study properties of the associated Artin-Schelter regular algebras. (Received September 15, 2020)