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Anne V Shepler* (ashepler@unt.edu), Department of Mathematics, P.O. Box 311430, Denton, TX 76203, and **Arun Ram**, Department of Mathematics, University of Wisconsin, Madison, WI 53706. *Graded Hecke Algebras.*

We define a graded Hecke algebra associated to any finite reflection group (real or complex). The geometry of the underlying hyperplane arrangement plays a heavy role in determining parameters for these algebras. In the Weyl case, these new algebras can be shown to include those defined by Lusztig. The talk is based on joint work with Arun Ram. (Received January 21, 2003)