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Zajj B Daugherty* (zdaugherty@ccny.cuny.edu), Department of Mathematics, The City College of New York, NAC 8/133, New York, NY 10031. *Five occurrences of the affine Hecke algebra of type C*. Preliminary report.

In this talk, we shall endeavor to understand the representation theoretic equivalence between five different algebras: the affine Hecke algebra of type C and its degenerate version, algebras in Schur-Weyl duality with the quantum group and universal enveloping algebra of type \mathfrak{gl}_n on certain tensor spaces, and a graded KLR-like algebra arising geometrically. Likely keywords include braids and diagram algebras, skew shapes and tableaux, intertwiners and weight spaces, and categorification. (Received August 09, 2015)