1050-11-150 **Jennifer Beineke** (jbeineke@wnec.edu), **Ben Brubaker** (brubaker@math.mit.edu) and **Sharon Frechette*** (sfrechet@mathcs.holycross.edu). *Weyl group multiple Dirichlet series, and GT patterns: Part II.* Preliminary report.

We construct Weyl group multiple Dirichlet series associated to root systems of Type C, through a combinatorial recipe involving Gelfand-Tsetlin patterns. These Dirichlet series are associated with an n-fold metaplectic cover of $\mathrm{So}(2r+1)$, and we prove functional equations for them when $n = 1$, via the Casselman-Shalika formula. We also prove that our description matches the so-called "stable case," as described for general root systems by Brubaker, Bump and Friedberg. This is joint work with Jennifer Beineke and Ben Brubaker. (Received March 03, 2009)