1050-11-163 **Jennifer Beineke*** (`jbeineke@wnec.edu`), Department of Mathematics, Western New England College, 1215 Wilbraham Road, Springfield, MA 01119, and **Ben Brubaker** and **Sharon Frechette**. *Weyl Group Multiple Dirichlet Series and GT-Patterns: Part I.*

In this talk, we provide an introduction to *Weyl group multiple Dirichlet series for type C*, Dirichlet series in several complex variables associated to the root system $\Phi = C_r$. We will describe background and motivational material, explaining how these Dirichlet series relate to Kubota's rank one Dirichlet series. Current results will be stated, along with giving a general sense of how patterns from algebraic combinatorics are used in the proofs. These patterns are a variant of Gelfand-Tsetlin patterns. Specifics will be addressed in Part II. (Received March 03, 2009)