1093-16-138   **Jessica A. Hamm*** (`tuc07283@temple.edu`) and **Martin Lorenz**. *Multiplicative Invariants of Root Lattices.*

The root systems of Lie theory give rise to some interesting lattices on which the associated Weyl group acts, notably the weight lattice and the root lattice. By a theorem of Bourbaki, the multiplicative invariant algebra of any weight lattice is known: it is a polynomial algebra. Multiplicative invariant algebras of root lattices, however, usually have a more complicated structure. In this talk we will discuss the multiplicative invariant algebras of the so-called classical root lattices under the action of their associated Weyl groups. (Received August 08, 2013)