1100-11-214   **Tim Huber*** (`hubertj@utpa.edu`), **Danny Lara** and **Esteban Melendez**. *Symmetric generators for graded rings of modular forms.*

A number of theta function representations for modular forms due to Klein and Ramanujan have apparent symmetric form. These are shown to be special cases of more general symmetric constructions on graded rings of modular forms for congruence subgroups of prime level $N \geq 5$. The symmetry reflects a permutative action of $\Gamma_0(N)$ on certain weight one generators for the rings. For low levels, the symmetry is linked to the action of classical Kleinian automorphism groups on vectors of theta constants. The theta quotients generating each ring have interesting formulations in terms of twisted Eisenstein series and satisfy similarly symmetric coupled systems of differential equations. (Received February 08, 2014)