Partition Congruences Associated with Modular Forms of Level 7

Timothy Huber

(University of Texas Rio Grande Valley)

Abstract

Congruences and other identities are derived for a set of colored partition functions associated with modular forms of level 7. The congruences result from linear transformations between vector spaces of modular forms of weight 1. Basis elements for the vector spaces are derived from a computer search for theta quotients arising from elliptic functions of a specified form.