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Stephanie Treneer* (treneer@math.uiuc.edu), Department of Mathematics, University of Illinois at Urbana-Champaign, 1409 W. Green St., Urbana, IL 61801. *Arithmetic Properties of the Coefficients of Modular Forms.*

Congruences for the partition function were once thought to be quite rare. Recently, the theory of modular forms has been used to show that in fact there are infinitely many congruences for this and several other arithmetic functions. I will give a general result asserting that similar congruences exist for any arithmetic function which occurs as the coefficients of a certain type of modular form. For example, congruences exist for many other partition functions. (Received September 28, 2005)