

1154-11-1549 **Scott Ahlgren*** (sahlgren@illinois.edu), Department of Mathematics, 1409 W. Green St.,
Urbana, IL 61801, and **Byungchan Kim**. *The smallest parts function*.

Many of the interesting properties of the ordinary partition function arise from the fact that its generating function is a modular form on the full modular group. I will discuss the analogous “smallest parts function,” whose generating function is a mock modular form on the same group. I will describe some recent results on the smallest parts function; in particular I will discuss a result which shows that its congruences are rare in a certain precise sense. (Received September 16, 2019)