

1086-11-1776      **F. G. Garvan\*** (fgarvan@uf1.edu), Department of Mathematics, University of Florida, PO BOX 118105, Gainesville, FL 32611-8105. *The smallest parts partition function.*

Let  $\text{spt}(n)$  denote the number of smallest parts in the partitions of  $n$ . In 2008, Andrews found surprising congruences for the  $\text{spt}$ -function mod 5, 7 and 13. We discuss recent work on analytic, arithmetic and combinatorial properties of the  $\text{spt}$ -function. Some of this work is joint with George Andrews (PSU) and Jie Liang (UCF, UF). (Received September 24, 2012)