Anatomy of a Number
March 13–17, 2006

Partitions without small parts

Élie Mosaki
mosaki@math.univ-lyon1.fr
Mathématiques, Théorie des nombres
Institut Camille Jordan de l'Université de Lyon
43 Bd du 11 novembre 1918
Villeurbanne, Lyon 69622
France

Abstract

Let $r(n, m)$ denotes the number of partitions of the integer n into parts greater than the real m. We give the asymptotics of this function, uniformly for m such that $1 \leq m \leq n/\log^3 n$. We also give results for $q(n, m)$, the number of partitions of n into distinct parts greater than m. This completes previous works of Erdös, Nicolas, Dixmier, Sárközy, Freiman and Pitman.