

Robbins, Neville**On partitions and cyclotomic polynomials.** (English) [Zbl 1067.11510](#)

Integers 0, Paper A06, 4 p. (2000).

Summary: Let m denote a squarefree number. Let $f_m(n)$ denote the number of partitions of n into parts that are relatively prime to m . Let $\Phi_m(z)$ denote the m th cyclotomic polynomial. We obtain a generating function for $f_m(n)$ that involves factors $\Phi_m(z^n)$.

MSC:[11P81](#) Elementary theory of partitions[05A17](#) Combinatorial aspects of partitions of integers[11T22](#) Cyclotomy**Full Text:** [EuDML](#)