

Zbl 790.05008**Erdős, Paul; Richmond, L.B.***On graphical partitions.* (In English)**Combinatorica 13, No.1, 57-63 (1993). [0209-9683]**

For even n , let $p(n)$ denote the number of partitions of n and $G(n)$ denote the number of graphical partitions of n . A partition $\pi = (\lambda_1, \lambda_2, \dots, \lambda_m)$ is graphical if there exists a graph with degree sequence π . The authors discuss progress and possible lines in enquiry on the questions of whether or not $\lim_{n \rightarrow \infty} G(n)/p(n)$ approaches 0, and prove two inequalities:

$$\limsup_{n \rightarrow \infty} \frac{G(n)}{P(n)} \leq .4258, \quad \liminf_{n \rightarrow \infty} n^{1/2} \frac{G(n)}{P(n)} \geq \frac{\pi}{\sqrt{6}}.$$

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05A17 Partitions of integres (combinatorics)

11B83 Special sequences of integers and polynomials

05C99 Graph theory

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