

Counting subgraph structures of the $n \times k$ grid graph

Peter Kagey

February 26, 2019

Abstract

A grid graph $G_{n,k}$ is a graph Cartesian product of two linear graphs $P_n \square P_k$. This talk presents a family of linear recurrences that arise from fixing k and counting subgraphs on $G_{n,k}$ with various vertex and connectedness conditions.