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The Sum of Squares of Degrees in a Graph

Abstract for the Combinatorics Seminar 2009 December 8

Let $G(v,e)$ be the set of all simple graphs with v vertices and e edges and let $P_2(G) = \sum d_i^2$ denote the sum of the squares of the degrees of the vertices of G . I will classify all graphs G in $G(v,e)$ for which $P_2(G)$ attains a maximum.

This talk is based on a recent paper by Bernardo M. Ábrego, Silvia Fernández-Merchant, Micheal G. Neubauer, and William Watkins.

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