Talks on Networks

Maths&Physics Bldg

by

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Elected CBMS–NSF Principal Speaker 2011

Decompositions of Graphs and Hypergraphs: 16 May 2011 @ 12:00 Rm307

Motivated by problems in network design, Graham and Pollak used algebraic techniques to determine the minimum number of complete bipartite graphs whose edges partition the edge set of a complete graph. In this talk, recent developments including a now disproved conjecture of Alon, Saks and Seymour as well as the still unsolved generalization of Graham and Pollaks theorem to hypergraphs will be discussed.

Eigenvalues of Graphs: 17 May 2011 @ 11:00 Rm216

Graph theory is the study of networks. In many situations, the only way we can study key applications of networks such as connectivity or expansion, is by using their eigenvalues. The powerful connections between the structure of networks and their eigenvalues will be discussed.

For further information contact Prof Irene Sciriha.