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New families of graphs determined by their generalized spectrum. (English) Zbl 1405.05105

Summary: We construct infinite families of graphs that are determined by their generalized spectrum. This construction is based on new formulae for the determinant of the walk matrix of a graph. All graphs constructed here satisfy a certain extremal divisibility condition for the determinant of their walk matrix.

MSC:
05C50 Graphs and linear algebra (matrices, eigenvalues, etc.)

Keywords:
graph spectrum; walk matrix; graphs determined by generalized spectrum

Full Text: DOI arXiv Link

References:

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