

Kelarev, A. V.; Quinn, S. J.

A combinatorial property and power graphs of groups. (English) [Zbl 0966.05040](#)

Dorninger, D. (ed.) et al., Contributions to general algebra 12. Proceedings of the 58th workshop on general algebra "58. Arbeitstagung Allgemeine Algebra", Vienna, Austria, June 3-6, 1999. Klagenfurt: Verlag Johannes Heyn. 229-235 (2000).

Authors' abstract: The power graph of a group G is a directed graph with the set G of vertices, and with all edges (u, v) such that $u \neq v$ and v is a power of u . For each directed graph D , we give a complete description of all groups G such that every infinite subset of G contains a power subgraph isomorphic to D . Also, we describe the structure of the power graphs of all finite abelian groups.

For the entire collection see [\[Zbl 0942.00022\]](#).

Reviewer: [Steven C.Althoen \(Flint\)](#)

MSC:

[05C25](#) Graphs and abstract algebra (groups, rings, fields, etc.)

Cited in **2** Reviews
Cited in **72** Documents

Keywords:

[power graph](#); [directed graph](#); [finite abelian groups](#)