

Turkish Journal of Mathematics

Turkish Journal

of

Mathematics

Finite Groups all of Whose Abelian Subgroups of Equal Order are Conjugate

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Abstract: In this paper we classify the finite groups whose abelian subgroups of equal order (B^* -groups) are conjugate. The classification has been achieved by means of a lot of general structure properties of B^* -groups, provided in the course of the paper.

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Key Words: Finite solvable groups, finite non-solvable groups, conjugacy classes of abelian subgroups, projective special linear groups over a finite field, simple first group of Janko, alternating groups, Sylow subgroups, Hall subgroups, Fitting subgroups, transitive action of groups on groups

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Turk. J. Math., **30**, (2006), 139-175.

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