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ON CERTAIN TORSION GROUPS SATURATED WITH FINITE SIMPLE GROUPS

A. K. Shlëpkin

A group G is said to be saturated with groups in a set X provided that every finite subgroup $K \leqslant G$ can be embedded in G into a subgroup L isomorphic to a group in X.

It is shown that a torsion group with a finite dihedral Sylow 2-subgroup which is saturated with finite simple nonabelian groups is locally finite and isomorphic to $L_2(P)$ (Theorem 1.1).

It is proven that a torsion group saturated with finite Ree groups is locally finite and isomorphic to a Ree group (Theorem 1.2).

Key words and phrases: torsion group, Sylow 2-subgroup, Ree group.

Shlëpkin Anatolij Konstantinovich
Krasnoyarsk State
Technical University,
660074 Krasnoyarsk, Russia.
E-mail: polyakov@ns.kgtu.runnet.ru

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