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PERIODIC GROUPS SATURATED WITH THE LINEAR GROUPS OF DEGREE 2 AND THE UNITARY GROUPS OF DEGREE 3 OVER FINITE FIELDS OF ODD CHARACTERISTIC

D. V. Lytkina and A. A. Shlepkin

Let \mathfrak{M} denote the set of the simple 3-dimensional unitary groups U_3 and the simple linear groups L_2 over finite fields of odd characteristic. We prove that each periodic group saturated with groups in \mathfrak{M} is locally finite and isomorphic to either $U_3(Q)$ or $L_2(Q)$ for a suitable locally finite field Q of odd characteristic.

Key words and phrases: group saturated with a set of groups, periodic group.

Lytkina Dar'ya Viktorovna

Siberian University of Telecommunications and Information Sciences,
Novosibirsk, 630102 Russia.
Novosibirsk State University,
Novosibirsk, 630090 Russia.
E-mail: daria.lytkin@gmail.com

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Shlepkin Aleksej Anatol'evich

Institute of Space and Information Technologies, Siberian Federal University, Krasnoyarsk, 660074 Russia. E-mail: shlyopkin@mail.ru

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