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

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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.

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