

International conference on MODULES AND REPRESENTATION THEORY Cluj-Napoca, July 7 – 12, 2008



The maximum element order in the groups related to the linear groups

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Let n be a natural number and q be the power of a prime p. The general, special and projective special linear groups are denoted by GL(n,q), SL(n,q) and PSL(n,q) respectively. In this paper we find the maximum order of an element of the above groups which is a multiple of p.