

M.R. Darafsheh, Y. Farjami, M. Khademi, A.R. Moghaddam-far

Some results on the recognizability of the linear groups over the binary field

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Abstract: In this paper, we first find the set of orders of all elements in some special linear groups over the binary field. Then, we will prove the characterizability of the special linear group $PSL(13, 2)$ using only the set of its element orders.

Keywords: element order, prime graph, projective special linear group

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