

Association schemes with a certain type of p -subschemes*

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Abstract

In this article, we focus on association schemes with some properties derived from the orbitals of a transitive permutation group G with a one-point stabilizer H satisfying $H < N_G(H) < N_G(N_G(H)) \trianglelefteq G$ and $|N_G(N_G(H))| = p^3$ where p is a prime. By a corollary of our main result we obtain some inequality which corresponds to the fact $|G : N_G(N_G(H))| \leq p + 1$.

Keywords: Association schemes, p -schemes.

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Asociativne sheme z določeno vrsto p -podshem*

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Povzetek

V tem članku se osredotočamo na združitevne sheme z nekaterimi lastnostmi, ki se nanašajo na orbitale tranzitivne permutacijske grupe G z enotočkovnim stabilizatorjem H , ki zadošča pogojema $H < N_G(H) < N_G(N_G(H)) \trianglelefteq G$ in $|N_G(N_G(H))| = p^3$, kjer je p praštevilo. Kot posledico našega glavnega rezultata dobimo neenakost $|G : N_G(N_G(H))| \leq p + 1$.

Ključne besede: Asociativne sheme, p -sheme.

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