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Cayley graphs of order $16p$ are hamiltonian

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Abstract

Suppose G is a finite group, such that $|G| = 16p$, where p is prime. We show that if S is any generating set of G , then there is a hamiltonian cycle in the corresponding Cayley graph $\text{Cay}(G, S)$.

Keywords: Cayley graph, hamiltonian cycle.

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Cayleyevi grafi reda $16p$ so Hamiltonovi

Povzetek

Predpostavimo, da je G končna grupa in je $|G| = 16p$ za neko praštevilo p . Pokažemo, da za poljubno množico generatorjev S grupe G v pripadajočem Cayleyjevem grafu $\text{Cay}(G,S)$ obstaja Hamiltonov obhod.

Ključne besede: Cayleyev graf, Hamiltonov obhod.