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Cayley graphs of order $kp$ are hamiltonian for $k < 48$

For every generating set $S$ of any finite group $G$, there is a corresponding Cayley graph $\text{Cay}(G; S)$. It was conjectured in the early 1970's that $\text{Cay}(G; S)$ always has a hamiltonian cycle, but there has been very little progress on this problem. Joint work with Kirsten Wilk has established the conjecture in the special case where the order of $G$ is $kp$, with $k < 48$ and $p$ prime. This was not previously known for values of $k$ in the set $\{24, 32, 36, 40, 42, 45\}$.

EVERYONE IS WELCOME!

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