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Toward a Sharp Baer–Suzuki Theorem for the π -Radical: Exceptional Groups of Small Rank

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Let π be a proper subset of the set of all prime numbers. Denote by r the least prime number not in π , and put $m = r$, if $r = 2, 3$, and $m = r - 1$ if $r \geq 5$. We look at the conjecture that a conjugacy class D in a finite group G generates a π -subgroup in G (or, equivalently, is contained in the π -radical) iff any m elements from D generate a π -group. Previously, this conjecture was confirmed for finite groups whose every non-Abelian composition factor is isomorphic to a sporadic, alternating, linear or unitary simple group. Now it is confirmed for groups the list of composition factors of which is added in the exceptional groups of Lie type.

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