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## Toward a Sharp Baer–Suzuki Theorem for the $\pi$ -Radical: Exceptional Groups of Small Rank

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**Algebra and Logic**  
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Let  $\pi$  be a proper subset of the set of all prime numbers. Denote by  $r$  the least prime number not in  $\pi$ , 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  $\pi$ -subgroup in  $G$  (or, equivalently, is contained in the  $\pi$ -radical) iff any  $m$  elements from  $D$  generate a  $\pi$ -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 by exceptional groups of Lie

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