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Groups in which every non-nilpotent subgroup is self-normalizing

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Abstract: We study the class of groups having the property that every non-nilpotent subgroup is equal to its normalizer. These groups are either soluble or perfect. We describe soluble groups and finite perfect groups with the above property. Furthermore, we give some structural information in the infinite perfect case.

Keywords: Normalizer, non-nilpotent subgroup, self-normalizing subgroup.

Math. Subj. Class.: 20E34, 20D15, 20E32

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Grupe, v katerih vsaka nenilpotentna podgrupa normalizira samo sebe

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Povzetek: Obravnavamo razred grup, ki imajo lastnost, da je vsaka njihova nenilpotentna podgrupa enaka svojemu normalizatorju. Te grupe so bodisi rešljive bodisi perfektne. Opisemo rešljive grupe in končne perfektne grupe z gornjo lastnostjo. Nadalje, podamo nekaj informacije o strukturi neskončnih perfektnih grup.

Ključne besede: Normalizator, podgrupa, sebi normalna podgrupa.

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