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## The Frattini subalgebras of $\mathfrak{N}$ -Lie Algebras

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摘要

关键词  [\$\mathfrak{N}\$ -Lie algebra](#) [the Frattini algebra](#) [Jacobson radical](#)

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## The Frattini subalgebras of $\mathfrak{N}$ -Lie Algebras

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**Abstract** In this paper, we mainly study the structural notions of Frattini subalgebra and Jacobson radical of  $\mathfrak{N}$ -Lie algebras. The properties on Frattini subalgebra and the relationship between the Frattini subalgebra and Jacobson radical are studied. Moreover, we also study them when an  $\mathfrak{N}$ -Lie algebra is strong semi-simple,  $\mathfrak{K}$ -solvable and nilpotent.

**Key words**  [\$\mathfrak{N}\$ -Lie algebra](#) [the Frattini algebra](#) [Jacobson radical](#)

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