

© 2020 Heldermann Verlag
Journal of Lie Theory 30 (2020) 259–276

S. N. Akbarossadat

Dept. of Mathematics, Islamic Azad University, Mashhad, Iran
n.akbarossadat@gmail.com

F. Saeedi

Dept. of Mathematics, Islamic Azad University, Mashhad, Iran
Saeedi@mshdiau.ac.ir

Nonabelian Tensor Product of n -Lie Algebras

Let L and P be two n -Lie algebras over a field \mathbb{F} . We define the notion of nonabelian tensor products of L and P , which is denoted by $L \otimes P$. We obtain some properties of nonabelian tensor products, and finally, we aim to study the abelianess of n -Lie algebras as well as their dimensions.

Keywords: n -Lie algebra, nonabelian tensor product, nonabelian tensor square.

MSC: 16W25, 15A69.