

Commutativity of Second-Order Quasiderivations in General Linear Lie Algebras

Икэда Ясуси

Postgraduate

Московский государственный университет имени М.В.Ломоносова,
Механико-математический факультет, Кафедра дифференциальной геометрии и
приложений, Москва, Россия
E-mail: yasushikeda@yahoo.com

We describe an explicit formula for the second-order quasiderivation of a particular type of central element of the universal enveloping algebra of a general linear Lie algebra. We apply it to show that the first several second-order derivations commute with the first-order derivation of any central element.