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## Derivations Of Generalized B Algebras

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generalized derivations 169 We note that the term generalized derivation has been used with various technical meanings different from ours (see, e.g., [6, 7, 21]). 2. DEFINITIONS AND NOTATION We assume throughout that the characteristic of the ground field is

~~Generalized derivations of (color)  $n$ -ary algebras.~~

[2] D. BENKOVIĆ, Generalized Lie derivations on triangular algebras, Linear Algebra Appl. 434 (2011), 1532–1544. [3] D. BENKOVIĆ, Lie triple derivations of unital algebras with

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idempotents , Linear Multilinear Algebra

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MORE ON LIE DERIVATIONS OF A GENERALIZED MATRIX ALGEBRA 389 Then a direct verification reveals that  $D$  is a derivation, "is center valued and  $L D DC$ ": For the converse, suppose that  $L$  is of the form  $DC$ ", where  $D$  is a derivation and "maps into  $Z.G/$ . Applying the presentations (2.1), (2.2) for  $L$  and  $D$ , respectively, we get "DL D as " a m n b D

~~b GENERALIZED DERIVATIONS OF SEMIPRIME RINGS HAVING ...~~

Generalized Derivations of Lie Algebras ... Suppose  $L$  is a finite-dimensional Lie algebra with multiplication  $\mu: L \times L \rightarrow L$ . È.B.

Vinberg Generalized derivations of algebras. Algebra and Analysis (Irkutsk, 1989), Amer. Math. Soc. Transl. Ser. 2, 163, American Mathematical Society, ...

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Let  $\mathcal{G}$  be a generalized matrix algebra. We prove that, under certain conditions, every local Lie derivation  $\delta$  of  $\mathcal{G}$  can be written in the form  $\delta = d + h$ , where  $d$  is a derivation of  $\mathcal{G}$  and  $h$  is a linear map from  $\mathcal{G}$  into  $Z(\mathcal{G})$  vanishing on each commutator.

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## ~~JORDAN DERIVATIONS AND ANTIDERIVATIONS OF GENERALIZED~~

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ARTICLE INFO ABSTRACT Article history: Received 12 February 2012 Accepted 11 June 2012 Available online 30 July 2012 Submitted by J.F. Queiro  
AMS classification: 15A78 16W25 47L35 Keywords: Generalized matrix algebras Triangular algebras Lie derivations Full matrix ...

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JORDAN DERIVATIONS AND ANTIDERIVATIONS OF GENERALIZED MATRIX ALGEBRAS YANBO LI, LEON VAN WYK AND FENG WEI (Communicated by P. Semrl) Abstract. Let  $G = A M N B$  be a generalized matrix algebra defined by the Morita context  $(A, B, A M B, B N A, \Phi M N, \Psi N M)$ . In this article we mainly study the question of whether there exist

~~Generalized Derivations of BCC Algebras — Hindawi~~

We study properties under which the domain of a closed

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derivation  $\delta: D(\delta) \rightarrow A$  of a generalized B  $\ast$ -algebra  $A$  remains invariant under analytic functional calculus. For a complete, generalized B  $\ast$ -algebra with jointly continuous multiplication, two sufficient conditions are assumed: that the unit of  $A$  belongs to the domain of the derivation, along with a condition related to the ...

~~Weigt, Zarakas : On domains of unbounded derivations of ...~~  
b-generalized derivations of semiprime rings having nilpotent values - volume 96 issue 3 - m. tamer koşan, tsiu-kwen lee Skip to main content We use cookies to distinguish you from other users and to provide you with a better experience on our websites.

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Generalized Higher Derivations on Lie Ideals of Triangular Algebras 37 into triangular algebras. Throughout the text, let  $A$

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be a triangular R-algebra consisting of unital R-algebras A;B and an (A;B)-bimodule M. All the algebras and modules are 2-torsion free and L will denote an admissible Lie ideal of A;B

## ~~Derivations of Generalized B-algebras~~

arXiv:1506.00734v1 [math.RA] 2 Jun 2015 Generalized derivations of (color) n-ary algebras. Ivan Kaygorodova,b,c, Yury Popovc,d1 a Universidade Federal do ABC, CMCC, Santo Andre', Brasil, b Universidade de Sao Paulo, Sao Paulo, Brasil, c Sobolev Institute of Mathematics, Novosibirsk, Russia, d Novosibirsk State University, Russia. Abstract. We generalize the results of Leger and Luks about ...

## ~~Generalized Lie derivations of unital algebras with ...~~

In mathematics, a derivation is a function on an algebra which generalizes certain features of the derivative operator.

Specifically, given an algebra A over a ring or a field K, a K-

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derivation is a  $K$ -linear map  $D : A \rightarrow A$  that satisfies Leibniz's law:  $D(ab) = D(a)b + aD(b)$ . More generally, if  $M$  is an  $A$ -bimodule, a  $K$ -linear map  $D : A \rightarrow M$  that satisfies the Leibniz law is also called a derivation.

~~On local Lie derivations of generalized matrix algebras ...~~

By applying this conclusion, we offer a characterization of left  $(\sigma)$ -centralizers, generalized derivations and generalized  $(\sigma)$ -derivations on von Neumann algebras.

~~Derivation (differential algebra) - Wikipedia~~

Derivations of Generalized B -algebras M. Weigt, I. Zarakas  
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~~Lie derivations of generalized matrix algebras~~  
derivations of Lie algebras. In this paper, we consider exclusively the derivations of generalized quaternion algebra over  $\mathbb{R}$  as a class of Lie algebra. We first state the conditions that a linear map should obey to become a derivation for the generalized quaternion algebra under consideration and then we obtain a typical derivation in its ...

~~Derivations of generalized quaternion algebra~~  
derivations of generalized  $b^*$ -algebras 79 2. Preliminaries All vector spaces in this paper are over the field  $\mathbb{C}$  of complex numbers and all topological spaces are assumed to be Hausdorff. Moreover, all algebras are assumed to have an identity element denoted by 1. A topological algebra is an algebra, which is also a topological vector space

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Recently, some results on maps of triangular algebras have been extended to generalized matrix algebras (see [8,9,13]). The aim of this paper is to describe Lie derivations of generalized matrix algebras. More precisely, we will prove the following result.  
Theorem 1. Let  $G$  be a generalized matrix algebra.

## ~~MORE ON LIE DERIVATIONS OF A GENERALIZED MATRIX ALGEBRA~~

Abstract. In this paper, we give some basic properties of the generalized derivation algebra  $G\text{Der}(L)$  of a Lie color algebra  $L$ . In particular, we prove that  $G\text{Der}(L) = Q\text{Der}(L) + QC(L)$ , the sum of the quasiderivation algebra and the quasicentroid. We also prove that  $Q\text{Der}(L)$  can be embedded as derivations in a larger Lie color algebra.

## ~~Generalized Derivations of Lie Algebras—CORE~~

The notion of generalized derivations of BCC -algebras is

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introduced, and some related properties are investigated. Also, we consider regular generalized derivations and the  $D$ -invariant on ideals of BCC -algebras. We also characterized  $\text{Ker } D$  by generalized derivations.

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