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Derivations Of Generalized B Algebras

derivations of generalized b^* -algebras
81 is τ -dense in A [22]. Every C^* -like locally convex $*$ -algebra is a GB^* -algebra over $B_0 = \{x \in A: \sup \nu p_\nu(x) \leq 1\}$ [22, Theorem 2.1]. Clearly, every pro- C^* -algebra is a C^* -like locally convex $*$ -algebra. Examples of GB^* -algebras,

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M. Weigt, I. Zarakas Department of Mathematics and Applied Mathematics,

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Nelson Mandela Metropolitan University,
Summerstrand Campus (South), Port
Elizabeth, 6031, South Africa
Department of Mathematics, University
of Athens, Panepistimiopolis, Athens
15784, Greece

Derivations of Generalized B -algebras

The notion of generalized derivations of BCC -algebras is 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.

Generalized Derivations of BCC- Algebras

generalized derivations algebras of a Lie algebra and their subalgebras was due to Leger and Luks [24]. In their article, they studied properties of generalized derivation algebras and their subalgebras, for ex-ample, the

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quasiderivation algebras. They have determined the structure of algebras of quasiderivations and generalized derivations and proved that the quasiderivation algebra of a Lie algebra can be embedded into the derivation algebra of a larger Lie algebra. Their results were ...

Generalized derivations of (color) -ary algebras.

generalized derivation. δ is said to be dual generalized inner derivation, if there exist $a, b \in M$ such that $\delta(x) = bx - xa$, for each $x \in M$. As above mentioned, it is proved that $D : A \rightarrow A$ is generalized derivation if and only if D is of the form $D = d + \varphi$, where d is a derivation from A into A and

GENERALIZED DERIVATIONS AND GENERALIZED AMENABILITY OF ...

526 Kyung Ho Kim and Sang Moon Lee
Then it is easy to check that d is a f -derivation of a BE-algebra X . Also, define a map $D : X \rightarrow X$ by $D(x) = 1$ if $x = 1, b$ if x

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= a. Then it is easy to check that D is a generalized f-derivation of X. Example 3.3. Let $X = \{1, a, b, c\}$ be a set in which “*” is defined by $* \begin{matrix} 1 & a & b & c \\ a & 1 & 1 & a \\ b & 1 & a & 1 \\ c & 1 & a & 1 \end{matrix}$ Then X is a BE-algebra. Define a map $d: X \rightarrow X$...

On Generalized f-Derivations of BE-Algebras

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. Suppose that (i) $Z(A) = \pi A(Z(G))$ and $Z(B) = \pi B(Z(G))$; (ii) either A or B does not contain nonzero central ideals. Y.

Lie derivations of generalized matrix algebras - ScienceDirect

Generalized derivations, quasiderivations and quasicentroid of \mathfrak{S} -algebras are introduced, and basic relations between them are studied. Structures of quasiderivations and quasicentroid of \mathfrak{S} -Lie algebras, which

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contains a maximal diagonalized tours, are systematically investigated.

Generalized derivations of 3-Lie algebras - NASA/ADS

Let \mathcal{G} be a generalized matrix algebra. We prove that, under certain conditions, every local Lie derivation δ 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 $\mathcal{Z}(\mathcal{G})$ vanishing on each commutator.

On local Lie derivations of generalized matrix algebras ...

Lie Color Algebras Generalized Derivations Quasiderivations Centroids Quasicentroids Supported by NNSF of China (No. 11171055), NSF of Jilin province (No.201115006), Scientific Research Foundation for Returned Scholars Ministry of Education of China

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Generalized Derivations of Lie Color Algebras | SpringerLink

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Jordan generalized derivations on trivial extension algebras

Local derivations on generalized Witt algebras, Linear and Multilinear Algebra. To link to this article: <https://doi.org/10.1080/03081087.2019.1708846>. Published online: 31 Dec 2019.

(PDF) 2-Local derivations on generalized Witt 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

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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

Furthermore, in 2009, Öztürk et al. have introduced the notion of generalized derivation in BCI-algebras. A self map is called a generalized α -derivation if there exists an α -derivation such that for all x, y . If there exists an α -derivation such that for all x, y , the mapping is called generalized α -derivation.

On α -Derivations in BCI-Algebras

Let A be a unital algebra and let \mathcal{M} be a unitary A -bimodule. We consider Jordan generalized derivations mapping from A into \mathcal{M} . Our results on unitary algebras are applied to triangular algebras. In particular, we prove that any Jordan generalized derivation of a triangular algebra is a generalized derivation.

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Jordan generalized derivations on triangular algebras ...

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

JORDAN DERIVATIONS AND ANTIDERIVATIONS OF GENERALIZED

...

For a complete, generalized $B *$ -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 coincidence $\sigma_A(x) = \sigma_{D(\delta)}(x)$ of the (Allan) spectra for every element $x \in D(\delta)$.

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Weigt , Zarakas : On domains of unbounded derivations of ...

algebra and can be represented as $B_n(R) = \text{Tri}(B_l(R), M_{l \times (n-l)}(R), B_{n-l}(R))$ where $1 < l < n$ and $B_l(R)$, $B_{n-l}(R)$ are block upper triangular matrix algebras with suitable vectors $k^{-1} \in N_l$, k^{-1}

Generalized Lie derivations on triangular algebras

higher derivation; Generalized derivation; Generalized higher derivation. Mathematics Subject Classification 2010: 16W25. 1 Introduction and preliminaries Let A and B be two algebras, X be a B -bimodule and $\sigma: A \rightarrow B$ be a linear mapping. A linear mapping $\delta: A \rightarrow X$ is called a σ -derivation if it satisfies the Leibniz rule $\delta(ab) =$

Generalized higher derivations are sequences of ...

Let \mathbb{F} be a field of characteristic 0, G an additive subgroup of \mathbb{F} , $s \in \mathbb{F}$ such that $s \notin G$ and $2s \in G$. A class of infinite-dimensional Lie algebras called

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generalized Schrödinger-Virasoro algebras was defined by Tan and Zhang, which is a natural generalization of Schrödinger-Virasoro algebras. In this paper, central extensions and derivations of are determined.

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