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Derivations of Generalized B -algebras M. Weigt, I. Zarakas Department of Mathematics and Applied Mathematics, Nelson Mandela Metropolitan University, Summerstrand Campus (South), Port Elizabeth, 6031, South Africa Department of Mathematics, University of Athens, Panepistimopolis, Athens 15784, Greece

Derivations of Generalized B -algebras

derivations of generalized b--algebras δ_1 is τ -dense in $A[22]$. Every C^* -like locally convex $*$ -algebra is a GB^* -algebra over $B_0 = \{x \in A : \text{suppv}(x) \leq 1\}$ [22, Theorem 2.1]. Clearly, every pro- C^* -algebra is a C^* -like locally convex $*$ -algebra. Examples of GB^* -algebras,

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Derivations Of Generalized B Algebras derivations of generalized b--algebras δ_1 is τ -dense in $A[22]$. Every C^* -like locally convex $*$ -algebra is a GB^* -algebra over $B_0 = \{x \in A : \text{suppv}(x) \leq 1\}$ [22, Theorem 2.1]. Clearly, every pro- C^* -algebra is a C^* -like locally convex $*$ -algebra. Examples of GB^* -algebras,

Derivations Of Generalized B Algebras

Lie algebras, the generalized derivations, quasideriv ations, centroids, and quasice centroids play key roles [4]. The most important and systematic research on the generalized deriv ation algebra of ...

(PDF) Generalized Derivations of BiHom-Lie Algebras

Generalized derivations on algebras Hartwig, Jonas and Silvestrov, Sergei LU In Preprints in Mathematical Sciences. Mark; Abstract In this paper we study (σ, τ) -derivations on algebras from an abstract point of view. After some definitions and examples, we derive Leibniz type formulas and introduce a module structure on spaces of (σ, τ) ...

Generalized derivations on algebras - Lund University

The generalized derivation $D: A \rightarrow A$ is inner if there exist $a, b \in A$, such that $D(x) = bx - xa$. If we consider A as a right A -module, generalized derivation $\delta: A \rightarrow A$ is inner if there exist $a \in A$ and $\phi \in M(A)$, such that $\delta(x) = \phi(x)xa$, that $\phi(x) = bx$. There are some generalizations for amenability of Banach algebras such as

GENERALIZED DERIVATIONS AND GENERALIZED AMENABILITY OF ...

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) $Z(A) = \pi_1 A(Z(G))$ and $Z(B) = \pi_2 B(Z(G))$; (ii) either A or B does not contain nonzero central ideals. Y.

Lie derivations of generalized matrix algebras - ScienceDirect

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Derivations Of Generalized B Algebras

Abstract. A class of the associative and Lie algebras $A[D] = A \otimes F[D]$ of Weyl type are studied, where A is a commutative associative algebra with an identity element over a field F of characteristic zero, and $F[D]$ is the polynomial algebra of a finite dimensional commutative subalgebra of locally finite derivations of A such that A is D -simple. The derivations of these associative and Lie ...

Derivations of generalized Weyl algebras | SpringerLink

(ii) $p \circ B$ is a derivation of B , $f(m) = mpB(b) + f(m)b$. Substituting both (2) and (4) into (3) we get that in particular $f_3(m) = as - sb + f(m)$ for all $a \in A$, $b \in B$, and $m \in M$. This implies $f_3 = 0$ and $f_3 = f$. Hence $\delta(\{a, m, b\}) = \{p(a)f(m), pB(b)\} + \mu(\{a, m, b\})$ (5) for all $a \in A$, $b \in B$, and $m \in M$. Since $f_4 = 0$, we have that there exist R -linear maps $h_1: N \rightarrow A$ and $h_2: N \rightarrow B$ such that $\delta(\{0, n, 0\}) = \{$

Lie derivations of generalized matrix algebras

$p \circ J(\{G, X\}) = p \circ J(\{w(a, i), w(b, j)\}) = a \circ j \circ p \circ J(w(a + b, i) - b \circ i \circ p \circ J(w(a + b, j)) = a \circ j \circ w(\pi J(a + b), i) - b \circ i \circ w(\pi J(a + b), j) = a \circ j \circ w(\pi J(a + b), i) - b \circ i \circ w \dots$

(PDF) 2-Local derivations on generalized Witt algebras

We initiate a study on a range of new generalized derivations of finite-dimensional Lie algebras over an algebraically closed field of characteristic zero. This new generalization of derivations has an analogue in the theory of associative prime rings and unites many well-known generalized derivations that have already appeared extensively in the study of Lie algebras and other nonassociative ...

A generalization on derivations of Lie 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. 1.

Generalized Derivations of BCC-Algebras

(1998). Generalized derivations in rings. Communications in Algebra: Vol. 26, No. 4, pp. 1147-1166.

Generalized derivations in rings: Communications in ...

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

JORDAN DERIVATIONS AND ANTIDERIVATIONS OF GENERALIZED ...

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 $D(x) = 1fx = 1, b \circ b$ if $x = a$. 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 " \circ " is defined by $a \circ 1 = ab, c \circ 1 = ab, c \circ a = 1, bc, b \circ 1 = a, c \circ 1 = ab$. Then X is a BE-algebra. Define a map $d: X \rightarrow X$...

On Generalized f-Derivations of BE-Algebras

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

On local Lie derivations of generalized matrix algebras ...

A linear mapping $\mu: \mathfrak{g} \rightarrow \mathfrak{g}$ is called a generalized derivation if there exists a derivation (in the usual sense) $\delta: \mathfrak{g} \rightarrow \mathfrak{g}$ such that $\mu(ab) = \mu(b) + \delta(ab)$ for all $a, b \in \mathfrak{g}$. Familiar examples are the derivations from \mathfrak{g} to \mathfrak{g} and all so-called inner generalized derivations; those are defined by $\mu x, y(a) = xa - ay$ for fixed arbitrary elements $x, y \in \mathfrak{g}$.

Hyers-Ulam-Rassias stability of generalized derivations

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 $x \in D(\delta)$. Certain results are derived concerning the spectra for a general element of the domain, in the realm of a domain which is advertibly complete or enjoys the Q -property.

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

In our future study of τ -derivations in BCI-algebras, may be the following topics should be considered: (1) to find the generalized τ -derivations of BCI-algebras, (2) to find more results in τ -derivations of BCI-algebras and its applications, (3) to find the τ -derivations of B-algebras, Q -algebras, subtraction algebras, d -algebra and so forth.