

## Jordan Zero Product Preserving Additive Maps On Nest Algebras

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Additive maps preserving Jordan zero-products on nest ...

The problem of characterizing Jordan zero-product preserving additive or linear maps between rings and operator algebras had been studied intensively (e.g., see [1][2][3] [4] [5] and the ...

Zero-product preserving additive maps on symmetric ...

In this paper we prove that every bijection preserving Lie products from a triangular algebra onto a normal ... M.Y. Jiao, Additive maps preserving Jordan zero-products on nest algebras, Linear Algebra ... [10] F.Y. Lu, Additive Jordan isomorphisms of nest algebras on normed spaces, J. Math. Anal. Appl. 284 (2003) 127-143. [11 ...

Additive mappings on [equation]-algebras sub-preserving ...

measure preserving and zero-product preserving mappings. 2 Main Results Proposition 2.1 W ... Jordan zero-product preserving additive maps on operator algebras, J. Math. Anal. Appl., 314(2006), 689-700. Created Date: 8/11/2015 4:02:17 PM ...

Additive maps preserving Jordan zero-products on nest algebras

Jordan product is a kind of important products in rings and operator algebras. The problem of characterizing additive (or linear) maps preserving some property of Jordan products on various rings and operator algebras has been studied by many mathematicians.

Additive mappings on  $C^*$ -algebras sub-preserving absolute ...

algebras which preserves zero-products in both directions is automatically continuous and is a scalar multiple of an algebra isomorphism. Linear or additive maps preserving zero-products on nest algebras were discussed in [7]. However, there are few papers discussing the zero-product preserving maps between operator spaces.

Mathematics | Free Full-Text | Maps Preserving  $k$ -Jordan ...

Download Jordan Zero Product Preserving Additive Maps On Nest Algebras Jordan Zero Product Preserving Additive Let  $\phi : B(H) \rightarrow B(K)$  be a Jordan zero-product preserving additive surjection. Then there exists a nonzero scalar  $c$  and an invertible bounded linear or conjugate-linear operator  $U : H \rightarrow K$  such that either  $\phi(A) = cUAU^{-1}$  for all  $A$

Jordan Zero Product Preserving Additive Maps On Nest Algebras

question of characterizing additive maps preserving Jordan zero-products was recently discussed in [11]. Let  $\phi : A \rightarrow B$  be an additive surjective map between some operator algebras  $A$  and  $B$ . Under some mild conditions, it was shown in [11] that, if  $\phi$  preserves Jordan zero-products, then  $\phi$  is a Jordan homomorphism multiplied by a central element.

Jordan Zero Product Preserving Additive

In this paper, we omit the assumption of "in both directions" and use a different approach to show that, for real or complex Hilbert space  $H$ , every Jordan zero-product preserving additive surjection on  $B(H)$  has either the form  $\phi(A) = cUAU^{-1}$  for all  $A \in B(H)$ , or the form  $\phi(A) = cUAU^{-1}U^*$  for all  $A \in B(H)$ , where  $c$  is a nonzero scalar,  $U$  is a bounded invertible linear or ...

ADDITIVITY OF MAPS PRESERVING JORDAN \*-PRODUCTS ON ...

Furthermore, if  $\phi$  is a  $C^*$ -algebra of real rank zero and  $\phi$  is additive and preserves absolute value of product, then  $\phi = \lambda \phi_1 \phi_2$  such that  $\phi_1$  (respectively,  $\phi_2$ ) is a complex linear (respectively, antilinear)  $\phi$ -homomorphism.

Measure Preserving Isomorphisms - CiteSeerX

In fact, we show that if the mapping  $\phi$  which is an additive sub-preserving product absolute value map from a  $C^*$ -algebra  $A$  into a  $C^*$ -algebra then  $\phi$  is a contraction. Moreover, if  $A$  is a  $C^*$ -algebra of real rank zero and  $\phi(A) = I$  for some  $A$  in the closed unit ball  $(\|A\| \leq 1)$ , then the restriction of mapping  $\phi$  to  $A$  is a Jordan homomorphism.

Additive maps preserving Jordan zero-products on nest ...

Jordan zero-product preserving if  $F(A)F(B)+F(B)F(A) = 0$  whenever  $AB + BA = 0$  for  $A, B \in R$ . The problem of characterizing Jordan zero-product preserving additive or linear maps between rings and operator algebras had been studied intensively (e.g., see [1-5] and the references therein.)

Maps Preserving  $k$ -Jordan Products on Operator Algebras

Zhao and J. Hou, Jordan zero-product preserving additive maps on operator algebras, J. Math. Anal. Appl. 314(2) (2006) 689-700. Crossref, ISI, Google Scholar Published: October 25, 2016

Jordan Zero Product Preserving Additive Maps On Nest Algebras

A surjective additive map preserving zero Jordan products, i.e. if  $x, y \in A$  are such that  $xy = yx = 0$ , then  $\phi(x)\phi(y) = \phi(y)\phi(x) = 0$ . In this paper, we show that if  $R$  contains  $1$  and  $n \geq 4$ , then  $\phi = \lambda \phi_1$ , where  $\phi_1$  is a central element of  $A$  and  $\lambda : A \rightarrow A$  is a Jordan homomorphism.

Jordan zero-product preserving additive maps on operator ...

Recall that a Jordan ring  $A$  is a non-associative commutative ring with product  $\cdot$  satisfying The question of characterizing additive maps preserving Jordan zero-products was recently discussed in ...

Maps preserving Jordan triple product on the self-adjoint ...

of usual product or other products of operators. For example see [3,5, 9,11,13,14]. Let  $R$  and  $R'$  be two rings and  $\phi : R \rightarrow R'$  be a map. Denote by  $PR$  and  $PR'$  the set of all idempotent elements of  $R$  and  $R'$ , respectively. We say that  $\phi$  preserves the idempotency of product of  $n$  elements, the idempotency of triple Jordan product of ...

ADDITIVE MAPS PRESERVING IDEMPOTENCY OF PRODUCTS OR JORDAN ...

Abstract. We study holomorphic maps between  $C^*$ -algebras and  $\mathbb{C}$ , when  $\phi$  is a holomorphic mapping whose Taylor series at zero is uniformly converging in some open unit ball. If we assume that  $\phi$  is orthogonality preserving and orthogonally additive on  $\mathbb{C}$  and contains an invertible element in  $\mathbb{C}$ , then there exist a sequence in  $\mathbb{C}$  and Jordan  $n$ -homomorphisms such that uniformly in  $\mathbb{C}$ .

Jordan zero-product preserving additive maps on operator ...

In Section 3 we give some lemmas and general properties of Jordan zero-product preserving additive maps, which are needed both for proving our main results and for further study. Section 4 is devoted to proofs of the main results, mainly for infinite dimensional case (i.e., Theorem 2.1) since finite dimensional case is an immediate consequence of the lemmas in Section 3.

Maps preserving strong 2-Jordan product on some algebras ...

prime  $C^*$ -algebra which preserving both Lie  $1$ -product and Jordan  $1$ -product for which one of operators is projection must be  $\phi$ -additive (i.e., additive and star-preserving). In a recent paper [9], L. Dai and F. Lu proved a bijective map  $\phi$  on von Neumann algebras which preserving Jordan  $1$ -product is a linear  $\phi$ -

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In the following theorem we would like to characterize the Jordan homomorphisms  $\phi$  which are additive mappings sub-preserving a product and an absolute value. Theorem 2.6 Let  $A$  Open image in new window be a  $C^*$  Open image in new window - algebra of real rank zero and  $\mathbb{C}$  Open image in new window be a unital  $C^*$  Open image in new window - algebra with unit  $1$ .

Orthogonally Additive and Orthogonality Preserving ...

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