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## Jordan Zero Product Preserving Additive Maps On Nest Algebras

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Zero Product Property How to Use

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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  $A \in B(H)$  or  $\phi(A) = cUA^*U^{-1}$  for all  $A \in B(H)$  (in the real case,  $U$  is linear).

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

ciative rings, we say that a map  $\phi : A \rightarrow B$  preserves Jordan zero-products (in both directions) if, for  $A, B \in A$ ,  $(\phi(A)\phi(B) + \phi(B)\phi(A) = 0$  whenever (if and only if)  $AB + BA = 0$ . The question of characterizing additive maps preserving Jordan zero-products was recently discussed in [11].

Additive maps preserving Jordan zero-products on nest algebras

The 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

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multiplied by a central element.

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

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 ...

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

It is shown that  $\varphi$  preserves Jordan zero-products in both directions, that is  $\varphi(A)\varphi(B)+\varphi(B)\varphi(A)=0$   $\Leftrightarrow$   $AB+BA=0$ , if and only if  $\varphi$  is either a ring isomorphism or a ring anti-isomorphism. Particularly, all unital additive surjective maps between Hilbert space nest algebras which preserves Jordan zero-products are characterized completely

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

Hou, J.: Jordan zero-product preserving additive maps on operator algebras. (English). - [J] J. Math. Anal. Appl. 314, No. 2, 689-700 (2006). [ISSN 0022-247X]

Hou, J.: Jordan zero-product preserving additive maps on ...

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

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preserving additive or linear maps between rings. and operator algebras had been studied intensively (e.g., see [1-5] and the references therein.) Let  $k$  be any positive integer.

Maps Preserving  $k$ -Jordan Products on Operator Algebras

for an additive map  $\phi: A \rightarrow B$  to preserve zero Jordan products is to be of the form  $\phi = \phi_0 + \phi_1$ , where  $\phi_0$  is a central element in  $B$  and  $\phi_1: A \rightarrow B$  is a Jordan homomorphism and. First we

(PDF) On Maps Preserving Zero Jordan Products

Motivated by this, we study in this paper the additive maps on the symmetric operator space and the self-adjoint operator space which preserve zero-products in both directions. We say that  $\phi$  is a Jordan zero-product preserving map if  $\phi(T)\phi(S) + \phi(S)\phi(T) = 0$  whenever  $TS + ST = 0$ .

Zero-product preserving additive maps on symmetric ...

We say that  $\phi$  is zero-product preserving if  $\phi(A)\phi(B) = 0$  whenever  $AB = 0$ ; we say that  $\phi$  is Jordan zero-product preserving if  $\phi(T)\phi(S) + \phi(S)\phi(T) = 0$  whenever  $TS + ST = 0$ .

Zero-product preserving additive maps on symmetric ...

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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 ...

Additive maps preserving Jordan zero-products on nest ... additive maps preserving Jordan zero-products was recently discussed in [11]. Additive maps preserving Jordan zero-products on nest algebras 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.

## Jordan Zero Product Preserving Additive Maps On Nest Algebras

In this paper, strong  $k$ -Jordan product preserving nonlinear maps on general rings and  $k$ -Jordan zero-product preserving additive maps on standard operator algebras are characterized, generalizing some known results.

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Jordan Zero Product Preserving Additive Maps On Nest Algebras 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

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Jordan Zero Product Preserving Additive Maps On Nest Algebras  
Jordan Zero Product Preserving Additive Maps On Nest Algebras  
Abstract. We study holomorphic maps between  $C$ -algebras and  $\mathcal{H}$ , 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  $\mathcal{H}$  and

Jordan Zero Product Preserving Additive Maps On Nest Algebras  
few papers discussing the zero-product preserving maps between operator spaces. Motivated by this, we study in this paper the additive maps on the symmetric operator space and the self-adjoint operator space which preserve zero-products in both directions. We say that  $\phi$  is a Jordan zero-product preserving map if  $(T)(S) + (S)(T) = 0$  whenever  $TS + ST = 0$ . We know that many operator spaces bear

Zero-product preserving additive maps on symmetric ...  
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Jordan Zero Product Preserving Additive Maps 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.

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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 ...

Maps preserving matrix pairs with zero Jordan product ...

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