Jordan Zero Product Preserving Additive Maps On Nest Algebras

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Jordan Zero Product Preserving Additive

Let Φ : B(H) → 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 → K such that either Φ(A) = cUAU −1 for all A ∈B(H) or Φ(A) = cUA ∗ U −1 for all A ∈B(H) (in the real case, U is linear).

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

A map f on R is k-Jordan zero-product preserving if { f (a) , f (b) } k = 0 whenever { a , b } k = 0 for a , b ∈ R ; it is strong k-Jordan product preserving if { f (a) , f (b) } k = { a ...

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

Let Φ : R → R be a map. Recall that Φ is Jordan zero-product preserving if Φ(A)Φ(B) + Φ(B)Φ(A) = 0 whenever AB + BA = 0 for A, B ∈ R.

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

ciative rings, we say that a map : A → B preserves Jordan zero-products (in both directions) if, for A,B ∈ A, (A) (B)+ (B) (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

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 2R. The problem of characterizing Jordan zero-product preserving additive or linear maps between rings.

Jordan Zero Product Preserving Additive Maps On Nest Algebras

Jordan zero-product preserving if F(A)F(B)+F(B)F(A) = 0 whenever AB + BA = 0 for A, B 2R. 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.) Let k be any positive integer.

Maps Preserving k-Jordan Products on Operator Algebras

Download Jordan Zero Product Preserving Additive Maps On Nest Algebras Let R be a ring, A = M n (R) and θ: A → A a surjective additive map preserving zero Jordan products, i.e. if x, y ∈ A are such that xy + yx = 0, then θ (x)θ (y) + θ (y)θ (x) = 0. In this paper, we show that if R contains On Maps Preserving Zero Jordan Products | SpringerLink

Jordan Zero Product Preserving Additive Maps On Nest Algebras

Motivated by this, we study in this paper the additive maps on the symmetric oper- ator space and the self-adjoint operator space which preserve zero-products in both directions. We say that afii9818 is a Jordan zero-product preserving map if afii9818 (T)afii9818 (S)+ afii9818 (S)afii9818 (T)= 0 whenever TS+ST = 0.

Zero-product preserving additive maps on symmetric ...
Recall that Φ is Jordan zero-product preserving if Φ (A) Φ (B) + Φ (B) Φ (A) = 0 whenever A B + B A = 0 for A, B ∈ 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 [1,2,3,4,5] and the references therein.)

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

ADDITIVITY OF MAPS PRESERVING JORDAN -PRODUCTS ON ...
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 oper-ator space and the self-adjoint operator space which preserve zero-products in both directions. We say that 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 ...
J. H. Zhang, Nonlinear maps preserving Lie products on factor von Neumann algebra, Linear Algebra Appl. 429 (2008) 18–30. Crossref, ISI, Google Scholar; 15. L. 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

Maps preserving strong 2-Jordan product on some algebras ...
Abstract. We study holomorphic maps between C-algebras and , when is a holomorphic mapping whose Taylor series at zero is uniformly converging in some open unit ball .If we assume that is orthogonality preserving and orthogonally additive on and contains an invertible element in , then there exist a sequence in and Jordan -homomorphisms such that uniformly in .

Orthogonally Additive and Orthogonality Preserving ...
A a surjective additive map preserving zero Jordan products, i.e. if x; y2A are such that xyþ yx 0, then ðxÞðyÞ þ ðyÞðxÞ 0. In this paper, we show that if R contains 1 2 and n5 4, then ’, where ð1Þ is a central element of A and ’ : A! A is a Jordan homomorphism.

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

Additive mappings on C ∗ -algebras sub-preserving absolute ...
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Continuous surjective maps preserving projections of ...
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),

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