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Jordan Operator Algebras

In mathematics, Jordan operator algebras are real or complex Jordan algebras with the compatible structure of a Banach space. When the coefficients are real numbers, the algebras are called Jordan Banach algebras. The theory has been extensively developed only for the subclass of JB algebras.

Jordan operator algebra - Wikipedia

Jordan algebras were first introduced by Pascual Jordan (1933) to formalize the notion of an algebra of observables in quantum mechanics. They were originally called "r-number systems", but were renamed "Jordan algebras" by Abraham Adrian Albert (1946), who began the systematic study of general Jordan algebras.

Jordan algebra - Wikipedia

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Jordan operator algebras are norm-closed spaces of operators on a Hilbert space which are closed under the Jordan product. The discovery of the present paper is that there exists a huge and tractable theory of possibly nonselfadjoint Jordan operator algebras; they are far more similar to associative operator algebras than was suspected.

Jordan operator algebras: basic theory - Blecher - 2018 ...

An operator algebra is a closed subalgebra of $B(H)$, for a complex Hilbert space H . By a Jordan operator algebra, we mean a norm-closed Jordan subalgebra of $B(H)$, namely a norm-closed subspace closed under Jordan product $a \circ b = \frac{1}{2}(a+b)(a+b)$

THEORY OF JORDAN OPERATOR ALGEBRAS AND OPERATOR -ALGEBRAS

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product. The discovery of the present paper is that there exists a huge and...

(PDF) Jordan operator algebras - ResearchGate

Jordan operator algebras Harald Hanche-Olsen and Erling Størmer This book was first published in 1984, but has been out of print for a number of years. In the year 2008, the publisher generously agreed to return all rights to the authors, and we the authors have decided to make the book freely available.

Jordan Operator Algebras - NTNU

Jordan operator algebras - by Harald Hanche-Olsen and Erling Størmer, originally published in 1984 by Pitman as volume 21 (ISBN 0-273-08619-7) in their Monographs and Studies in Mathematics series. The book has been out of print for a while.

Jordan operator algebras - NTNU

By a Jordan operator algebra, we mean a norm-closed Jordan subalgebra of $B(H)$,

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namely a norm-closed subspace closed under Jordan product $a \circ b = (ab + ba)/2$. By an operator $*$ -algebra we mean an operator algebra with a completely isometrically anti-isomorphic involution \dagger making it a $*$ -algebra.

Theory of Jordan Operator Algebras and Operator $*$ -Algebras ...

For Euclidean Jordan algebras it is known that elements operator commute if and only if they generate an associative subalgebra.¹ Euclidean Jordan algebras were later generalised to an infinite-dimensional setting in the form of JB-algebras.

Commutativity in Jordan operator algebras - ScienceDirect

It can be proved that is a Jordan δ -derivation if is a linear map on and satisfies the n th power δ -property. So we need to prove that a Jordan δ -derivation on is an δ -derivation. The characterization of Jordan δ -derivations on algebras or rings is a subject in various areas.

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Clearly, any α -derivation is a Jordan α -derivation.

Jordan α -Derivations on Operator Algebras

Let $(A, *, 1)$ be a Jordan algebra and for an element $a \in A$ write $T_a: A \rightarrow A$ for the Jordan product map $T_a(b) = a * b$. We say that $a, b \in A$ operator commute when $T_a T_b = T_b T_a$. The Jordan identity can for instance be stated as " a and a^2 operator commute".

Operator commutation in Jordan algebras - Mathematics ...

The characterization of Jordan $([\alpha], [\beta])$ -derivations on algebras or rings is a subject in various areas. Clearly, any $([\alpha], [\beta])$ -derivation is a Jordan $([\alpha], [\beta])$ -derivation. Ashraf et al. and Lanski provided us with beautiful counterexamples to illustrate that the converse statements are not true in general.

Jordan $([\alpha], [\beta])$ -Derivations

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on Operator Algebras ...

Jordan operator algebras are norm-closed spaces of operators on a Hilbert space with $a^2 \in A$ for all a in A . In two recent papers by the authors and Neal, a theory for these spaces was developed.

Jordan operator algebras revisited - CORE

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Jordan Operator Algebras by Harald Hanche-Olsen, Erling ...

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algebras Operator algebras and ...

Jordan Operator Algebras - wakati.co

Jordan operator algebras are norm-closed spaces of operators on a Hilbert space with $a^2 \in A$ for all $a \in A$. We study noncommutative topology, noncommutative peak sets and peak interpolation, and hereditary subalgebras of Jordan operator algebras.

arXiv:1709.06710v2 [math.OA] 3 Jul 2018

A Jordan algebra is an algebra that may not be associative, but is commutative, subject to some further conditions which are modeled after the archetypical example: for (A, \cdot) any associative algebra, equipping it with the symmetrized product $x \circ y := \frac{1}{2}(xy + yx)$ makes (A, \circ) a Jordan algebra.

Jordan algebra in nLab

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