Jordan Operator Algebras

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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 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 ...
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
Abstract: 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.

[1705.00245] Jordan operator algebras: Basic theory
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. We initiate the theory of such algebras.

Jordan operator algebras: Basic theory - arxiv-vanity.com
Abstract: 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.

[1812.09995] Jordan operator algebras revisited

A survey of recent results in classification of JW-algebras (weakly closed Jordan algebras of self-adjoint operators in the Hilbert space) is given along with connections of JW-algebras with their enveloping W $*$ -algebras. It is shown how these results are applied in the proofs of analogs of many important results in the theory of W $*$ -algebras.

Jordan operator algebras | SpringerLink

Jordan operator algebras Harald Hanche-Olsen and Erling Størmer This book was first published in 1984, but has been out of print for a num-ber 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

Abstract. Let be a CSL subalgebra of a von Neumann algebra acting on a Hilbert space .It is shown that any Jordan -derivation

on is an -derivation, where are any automorphisms on .Moreover, the th power -maps on are investigated.. 1. Introduction and Preliminaries. Throughout the paper, let be a complex Hilbert space. Denote by the algebra of all bounded linear operators on and by the identity ...

Jordan -Derivations on Operator Algebras

Lecture 21 - Jordan Algebras and Projective Spaces April 15, 2013 References: Jordan Operator Algebras. H. Hanche-Olsen and E. Stormer The Octonions. J. Baez 1 Jordan Algebras 1.1 De nition and examples In the 1930's physicists, looking for a larger context in which to place quantum mechanics, settled on the following axioms for an algebra of ...

Lecture 21 - Jordan Algebras and Projective Spaces

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∘ b= 1 2

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This chapter is devoted to weakly closed Jordan algebras of self-adjoint operators on a complex Hilbert space — so called JW -algebras introduced by D.Topping.

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Such Jordan algebras are called special Jordan algebras; all

others are called exceptional.. Formally real Jordan algebras and their origin in quantum physics. Jordan algebras had their origin in the study of the foundations of quantum theory.In 1932, Pascual Jordan tried to isolate some axioms that an 'algebra of observables' should satisfy (). The unadorned phrase 'algebra' usually ...

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