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Symplectic spinor fields are sections in an L^2 -Hilbert space bundle over a symplectic manifold and symplectic Dirac operators, acting on symplectic spinor fields, are associated to the symplectic manifold in a very natural way. Hence they may be expected to give interesting applications in symplectic geometry and symplectic topology.

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Introduction to Symplectic Dirac Operators

Since all symplectic matrices have determinant 1, the symplectic group is a subgroup of the special linear group $SL(2n, F)$. When $n = 1$, the symplectic condition on a matrix is satisfied if and only if the determinant is one, so that $Sp(2, F) = SL(2, F)$. For $n > 1$, there are additional conditions, i.e. $Sp(2n, F)$ is then a proper subgroup of $SL \dots$

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Introduction to Symplectic Dirac Operators Katharina Habermann , Lutz Habermann (auth.) One of the basic ideas in differential geometry is that the study of analytic properties of certain differential operators acting on sections of vector bundles yields geometric and topological properties of the underlying base manifold.

Introduction To Symplectic Dirac Operators

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The classical Atiyah-Singer index formula for Dirac operators expresses a certain topological invariant of a closed spin manifold, the so-called $A^{\hat{}}$ -genus, as the Fredholm index of the associated Dirac operator acting on the space of spinors, thus providing an effective, fruitful link between geometric and analytical aspects of the underlying ...

On c-structures and Symplectic Dirac Operators

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They are called symplectic because they are constructed by use of the symplectic setting of the underlying symplectic manifold. This volume is the first one that gives a systematic and self-contained introduction to the theory of symplectic Dirac operators and reflects the current state of the subject.

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Many years ago B. Kostant introduced a symplectic analog of the Dirac operator called symplectic Dirac operator. This symplectic Dirac operator was mainly studied from the geometrical point of ...

Symplectic group - Wikipedia

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They have shown that the commutator $[D, \{\wt{D}\}]$ is an elliptic operator preserving an infinite number of finite dimensional subbundles. We extend the construction of symplectic Dirac operators to any symplectic manifold, through the use of $\mathbb{M}pc$ structures.

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symplectic Dirac operators on any symplectic manifold. The introduction of a compatible positive almost complex structure J on (M, ω) and an MUc -connection allows again the construction of a second operator DJ . The commutator $[D, DJ]$ is again elliptic. In [2], we observed that similar constructions could be performed on symplectic manifolds which

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