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In particular, flag manifolds are shown to arise as twistor spaces of Riemannian symmetric spaces. Applications of this theory include a complete classification of stable harmonic 2-spheres in Riemannian symmetric spaces and a Backlund transform for harmonic 2-spheres in Lie groups which, in many cases, provides a factorisation theorem for such spheres as well as gap phenomena.

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Riemannian Manifold Riemann Surface Symmetric Space Complex Manifold Twistor Space These keywords were added by machine and not by the authors. This process is experimental and the keywords may be updated as the learning algorithm improves.

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One way of quantising the theory is to use the following substitution: The spin operator can be easily derived in the non-commutative case following the same procedure. The result is the symmetrised form: Therefore, if we want a twistor function to be an eigenstate of spin operator with eigenvalue ,...

Twistor Primer - University of Oxford
complex structure, as in [11], following the methods from twistor theory. We present the twistor space Zp,q of a pseudo-sphere S2n 2q = SO2p+1,2q/SO2p,2q as a pseudo-Ka¨hler symmetric space. We then consider orthogonal complex structures on the pseudo-sphere, only to prove such a structure cannot exist. 1 Introduction

On the twistor space of pseudo-spheres
Riemannian symmetric spaces than for the inner spaces treated in [1]: for instance, G does not act transitively on the components of Z except when J (l p) is zero-dimensional, which is the case ...

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Twistor theory for Riemannian symmetric spaces (Book, 1990 ...

1 Introduction. The twistor construction is an important technique in differential geometry and mathe- matical physics. This approach was first proposed by R. Penrose in 1960s. In 1978, the Riemannian version of R. Penrose’s twistor programme was presented by M. F. Atiyah, N. J. Hitchin and I. M. Singer[3].

Twistor geometry of Hermitian surfaces induced by ...
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Overview. Einstein-Cartan theory differs from general relativity in two ways: (1) it is formulated within the framework of Riemann-Cartan geometry, which possesses a locally gauged Lorentz symmetry, while general relativity is formulated within the framework of Riemannian geometry, which does not; (2) an additional set of equations are posed that relate torsion to spin.

Einstein–Cartan theory - Wikipedia
The twistor formalisms are related to the structure of spacetime and the relation of the spinors and twistors is also of interest because it identifies a relationship between quantum mechanics and relativity [17, 18, 30, 31]. 7 Twistor theory has been related to conformal field theory and string theory [31].

QUATERNIONS, SPINORS, AND TWISTORS AND THE
The curvature tensor can also be defined for any pseudo-Riemannian manifold, or indeed any manifold equipped with an affine connection. It is a central mathematical tool in the theory of general relativity, the modern theory of gravity, and the curvature of spacetime is in principle observable via the geodesic deviation equation.

Riemann curvature tensor - Wikipedia
Riemannian, Symplectic and Weak Holonomy. ... some of the more recent developments in the theory of non-Riemannian or,more specifically, symplectic holonomy groups. ... the list o f non-symmetric ...

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Curvature characterizations of twistor spaces over four-dimensional Riemannian manifolds Foreman, Brendan, Kodai Mathematical Journal, 2002; Involutions of compact Riemannian 4-symmetric spaces Kurihara, Hiroyuki and Tojo, Koji, Osaka Journal of Mathematics, 2008