

# Twistor Theory For Riemannian Symmetric Spaces With Applications To Harmonic Maps Of Riemann Surfaces Lecture Notes In Mathematics

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## Twistor Theory For Riemannian Symmetric

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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 Bäcklund transform for harmonic 2-spheres in Lie groups which, in many cases, provides a factorisation theorem for such spheres as well as gap phenomena.

## Twistor Theory for Riemannian Symmetric Spaces: With ...

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Twistor Theory for Riemannian Symmetric Spaces by Francis E. Burstall, 9783540526025, available at Book Depository with free delivery worldwide.

## Twistor Theory for Riemannian Symmetric Spaces : Francis E ...

In this monograph on twistor theory and its applications to harmonic map theory, a central theme is the interplay between the complex homogeneous geometry of flag manifolds and the real homogeneous geometry of symmetric spaces.

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

TWISTOR SPACES FOR RIEMANNIAN SYMMETRIC SPACES Francis Burstall, Simone Gutt and John Rawnsley Published as: Math. Ann. 295 (1993) 729{743 Abstract. We determine the structure of the zero-set of the Nijenhuis tensor of the natural almost complex structure  $J$  on the total space of the bundle  $J(G=K/g)$  of Hermitian

## TWISTOR SPACES FOR RIEMANNIAN SYMMETRIC SPACES

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## The twistor space of a Riemannian symmetric space ...

theory of twistor spaces in Riemannian geometry, cf. [4, 15]. We remark that a proof of the

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independency of the equations (1.4) from the signature, which varies with  $l$ , is also written down in [1]. Hence, either all the  $Z_l$  — or none — have integrable almost complex structures. The following is particular to the symplectic framework. Theorem 1.2.

## Twistor Theory of Symplectic Manifolds

In differential geometry, representation theory and harmonic analysis, a symmetric space is a pseudo-Riemannian manifold whose group of symmetries contains an inversion symmetry about every point.

## Symmetric space - Wikipedia

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 Bäcklund 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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## Twistor Theory for Riemannian Symmetric Spaces : With ...

CiteSeerX - Document Details (Isaac Councill, Lee Giles, Pradeep Teregowda): 0.1 The metric In this short communication we show some computations about the curvature of a metric defined on the twistor space of a symplectic manifold. Let  $(M, \omega, \nabla)$  be a symplectic manifold endowed with a symplectic connection (that is  $\nabla \omega = 0, T \nabla = 0$ ).

## CiteSeerX — Riemannian geometry of the twistor space of a ...

By a twistor space for a Riemannian manifold  $(M, g)$  we mean an (almost) complex manifold  $\pi : Z \rightarrow M$ , fibred over  $M$  with complex fibres, together with some additional properties; see section 2 for the...

## (PDF) Twistor spaces for Riemannian symmetric spaces

Bull. Amer. Math. Soc. (N.S.) Volume 25, Number 2 (1991), 454-457. Review: Francis E. Burstall and John H. Rawnsley, Twistor theory for Riemannian symmetric spaces ...

## Wells : Review: Francis E. Burstall and John H. Rawnsley ...

In mathematics, a Hermitian symmetric space is a Hermitian manifold which at every point has as an inversion symmetry preserving the Hermitian structure. First studied by Élie Cartan, they form a natural generalization of the notion of Riemannian symmetric space from real manifolds to complex manifolds.

## Hermitian symmetric space - Wikipedia

F. E. Burstall 1990 Riemannian twistor spaces and holonomy groups Twistors in mathematics and physics (Cambridge Univ. Press, Cambridge) p 53-70 . Crossref MathSciNet Google Scholar [27] F. E. Burstall and J. H. Rawnsley 1990 Twistor theory for Riemannian symmetric spaces. With applications to harmonic maps of Riemann surfaces Lecture Notes ...

## Twistor spaces and harmonic maps - IOPscience

There is a natural 1-parameter family of Riemannian metrics  $g_t$  on the twistor space  $Z$ . In fact,  $J_+$  and  $J_-$  are orthogonal almost complex structures with respect to the metrics  $g_t$ .

## (PDF) Twistor geometry of Riemannian 4-manifolds by moving ...

The twistor construction is an important technique in differential geometry and mathematical 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.

## Twistor geometry of Hermitian surfaces induced by ...

Theorem. Let be  $M = G / K$ , an internal symmetric simply connected Riemannian manifold and of compact type. Then; We can have a little digression with certain details on the complex Radon transform using submanifolds in the space  $C P^1$ , to the  $\partial^{\bar{}} -$  cohomology. Let be  $M$ , a complex

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holomorphic manifold (or complex Riemannian manifold [15]).

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