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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



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

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Twistor Theory for Riemannian  
Symmetric Spaces by Francis E. Burstall,  
9783540526025, available at Book

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## **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

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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)

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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

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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

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

## **Twistor Theory of Symplectic**



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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**

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

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Councill, Lee Giles, Pradeep Teregowda):

0.1 The metric In this short  
communication we show some

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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  $\nabla\omega = 0$ ,  $T\nabla = 0$ ).

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of the twistor space of a ...**

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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...

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

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

In mathematics, a Hermitian symmetric

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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.



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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  
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## Surfaces Lecture Notes In Mathematics **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

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orthogonal almost complex structures  
with respect to the metrics  $g$   $t$ .

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...

The twistor construction is an important  
technique in differential geometry and  
mathe- matical physics. This approach

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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

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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  
 $\partial \bar{\phantom{x}}$  – cohomology. Let be  $M$ , a complex

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

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