Differential And Twistor Geometry Of The Quantum Hopf

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Differential And Twistor Geometry Of

Twistor theory was proposed by Roger Penrose in 1967 as a possible path to

quantum gravity and has evolved into a branch of theoretical and mathematical physics. Penrose proposed that twistor space should be the basic arena for physics from which space-time itself should emerge. It leads to a powerful set of mathematical tools that have applications to differential and integral geometry, nonlinear differential

equations and representation theory and in physics to relativity and quantum field the

Twistor theory - Wikipedia

We study a quantum version of the SU(2) Hopf fibration $${S^7 \\to S^4}$$ and its associated twistor geometry. Our quantum sphere $${S^7_q}$$ arises as

the unit sphere inside a q-deformed quaternion space $${\\mathbb{H}^2_q}$$. The resulting four-sphere $${S^4_q}$$ is a quantum analogue of the quaternionic projective space $${\\mathbb{HP}^1}$$. The quantum fibration is endowed with ...

Differential and Twistor Geometry

of the Quantum Hopf ...

Differential and Twistor Geometry of the Quantum Hopf Fibration - NASA/ADS We study a quantum version of the SU(2) Hopf fibration {S^7 to S^4} and its associated twistor geometry. Our quantum sphere {S^7_q} arises as the unit sphere inside a q-deformed quaternion space {{H}^2_q}.

Differential and Twistor Geometry of the Quantum Hopf ...

DIFFERENTIAL AND TWISTOR GEOMETRY OF THE QUANTUM HOPF FIBRATION SIMON BRAIN AND GIOVANNI LANDI Abstract. We study a quantum version of the SU(2) Hopf fibration S7 → S4 and its associated twistor geometry. Our

quantum sphere S7 q arises as the unit sphere inside a q-deformed quaternion space H2 q. The resulting four-sphere S4 q is a quantum analogue

DIFFERENTIAL AND TWISTOR GEOMETRY OF THE QUANTUM HOPF ...

The description in terms of twistors

involves algebraic and differential geometry, algebraic topology and results in a new perspective on the properties of space and time. The authors firstly develop the mathematical background, then go on to discuss Yang-Mills fields and gravitational fields in classical language, and in the final part a number of field-theoretic problems are solved.

Twistor Geometry and Field Theory by R. S. Ward

Thus, discrete differential geometry in twistor space generalizes the theory of Bobenko and Suris for the Lie quadric. As the twistor viewpoint relies on easy switching between the natural objects of their respective spaces via equivalences,

certain constructions in this paper are illustrated by a triptych of equivalent diagrams in the 4-sphere, C P 3 , and the Plücker quadric.

On discrete differential geometry in twistor space ...

Thus his mathematical tool is geometry instead of differential equations.

However, space-time descriptions of the normal kind have been used at the atomic or particle level for long time with extraordinary accuracy. Thus, this new geometrical picture must, at that level, be mathematically equivalent to the normal space-time picture - in the ...

Twistor Theory - universe-review.ca

Class. Quantum Grav. 14 (1997) A261–A290. Printed in the UK PII: S0264-9381(97)77955-3 Twistor bundles, Einstein equations and real structures Pawel Nurowskiy Department of Math

www.fuw.edu.pl

We discuss the twistor correspondence

between path geometries in three dimensions with vanishing Wilczynski invariants and anti-self-dual conformal structures of signature $(2, 2)$. We show how to reconstruct a system of ODEs with vanishing invariants for a given conformal structure, highlighting the Ricci-flat case in particular. Using this framework, we give a new

derivation of the ...

[1203.4158] Twistor geometry of a pair of second order ODEs

R.S. Ward, R.O. Wells, Twistor geometry and field theory, Cambridge Univ. Press 1990. The relation of twistor geometry to MHV amplitudes in 4d Yang-Mills theory and twistor string theory is due

to. Edward Witten, Perturbative Gauge Theory As A String Theory In Twistor Space, Commun. Math. Phys. 252:189-258, 2004 (arXiv:hep-th/0312171)

twistor space in nLab

CARTOGRAPHY AND DIFFERENTIAL GEOMETRY 3 n p ˚(p) Figure 1.2:

Stereographic Projection the minimal geodesic connecting two points in a plane is the straight line segment connecting them. Hint: Both a great circle in a sphere and a line in a plane are preserved by a re ection. (See also Exercise 4.2.5 below.)

INTRODUCTION TO DIFFERENTIAL

GEOMETRY

Differential and Twistor Geometry of the Quantum Hopf Fibration Differential and Twistor Geometry of the Quantum Hopf Fibration Brain, Simon; Landi, Giovanni 2012-09-11 00:00:00 Commun. Math. Phys. 315, 489–530 (2012) Communications in Digital Object Identifier (DOI)

10.1007/s00220-012-1565-1 Mathematical Physics Differential and Twistor Geometry of the Quantum Hopf Fibration 1 2,3 Simon ...

Differential and Twistor Geometry of the Quantum Hopf ...

The description in terms of twistors involves algebraic and differential

geometry, and several complex variables, and results in a different kind of setting that gives a new perspective on the properties of space-time and field theories.

Twistor geometry and field theory | R. S. Ward, Raymond O ...

Donaldson-Friedman constructed anti-

self-dual classes on K3#3CP2¯ using twistor space. We show that some of these conformal classes have almost-Kähler...

Almost-Kähler anti-self-dual metrics on K3#3CP2¯

References [1] P. Griffiths and J. Harris, Algebraic geometry and local differential

geometry, Ann. Sci. Ecole Norm. Sup. 12 (1979) 355-452.

Ran : Local differential geometry and generic projections ...

Differential and Twistor Geometry of the Quantum Hopf Fibration Article in Communications in Mathematical Physics 315(2) · March 2011 with 34

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Differential and Twistor Geometry of the Quantum Hopf ...

TITLE: Twistor spaces and hyperkahler metrics. ABSTRACT: I discuss several questions about twistor spaces of hyperkaehler manifolds: multiple components of the Kodaira moduli space

of sections; differential geometry of spaces of sections which include sections with “wrong” normal

Roger Bielawski: Lectures – Simons Collaboration on ...

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We discuss the twistor correspondence

between path geometries in three dimensions with vanishing Wilczynski invariants and anti-self-dual conformal structures of signature (2, 2). We show how to reconstruct a system of ODEs with vanishing invariants for a given conformal structure, highlighting the Ricci-flat case in particular.