

## Differential And Twistor Geometry Of The Quantum Hopf

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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

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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 ...

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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  $S^7 \rightarrow S^4$  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

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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,  $CP^3$ , and the Plücker quadric.

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Along the way, many results from complex analysis are generalised to arbitrary (Riemannian or conformal spin) manifolds, such as the Cauchy integral formula, the Plemelj formula, and the L<sup>2</sup>-boundedness of the Hilbert transform. The second example concerns the geometry of the twistor operator and the analysis of differential ...

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Few people have proved more influential in the field of differential and algebraic geometry, and in showing how this links with mathematical physics, than Nigel Hitchin. Oxford University's Savilian Professor of Geometry has made fundamental contributions in areas as diverse as: spin geometry, instanton and monopole equations, twistor theory, symplectic geometry of moduli spaces, integrables ...

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