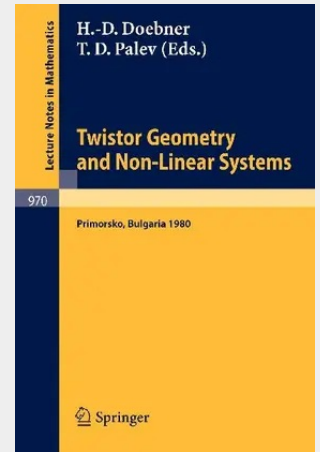


Twistor Geometry and Non-Linear Systems

Review Lectures given at the 4th Bulgarian Summer School on Mathematical Problems of Quantum Field Theory, Held at Primorsko, Bulgaria, September 1980

Integral geometry and twistors.- Gauge fields and cohomology of analytic sheaves.- to twistor particle theory.- Complex manifolds and Einstein's equations.- Infinite dimensional lie groups; their orbits, invariants and representations. The geometry of moments.- A few remarks on the construction of solutions of non-linear equations.- Some topics in the theory of singular solutions of nonlinear equations.- Symmetries and conservation laws of dynamical systems.- Group-theoretical aspects of completely integrable systems.- Relativistically invariant models of the field theory integrable by the inverse scattering method.- Space-time versus phase space approach to relativistic particle dynamics.

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