

Harmonic mappings, twistors, and sigma models

World Scientific - Twistor constructions for harmonic maps



Description: -

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 Attention-deficit hyperactivity disorder -- Treatment
 Lenin, Vladimir Il'ich, -- 1870-1924.
 Gandhi, -- Mahatma, -- 1869-1948.
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From Harmonic Maps to the Nonlinear Supersymmetric Sigma Model of Quantum Field Theory: at the Interface of Theoretical Physics, Riemannian Geometry, and Nonlinear Analysis

Baird, Bernstein theorems for harmonic morphisms, in: Miniconference on geometry and partial differential equations 2, Canberra 1986, Proc.

Twistor constructions for harmonic maps

Student Texts , 38 , Cambridge Univ. Burel, Almost symplectic structures and harmonic morphisms, Bollettino della Unione Matematica Italiana 8 7-B 2004 , 493-507.

Harmonic mapping

As we have discussed above, however, those variations μ in that do not change the conformal structure lead to quadratic differentials $Q d z^2$ in that are orthogonal to the holomorphic ones, and therefore, their Weil—Petersson products with a holomorphic $T d z^2$ vanish. Therefore, on one hand, they are intimately connected with moduli spaces of Riemann surfaces, and on the other hand, because the conformal group is noncompact, constitute a prototype for the formation of singularities, the so-called bubbles, in geometric analysis.

List of Publications

Here, however, the regularity theory is much harder. Eells, A conservation law for harmonic maps, in: Geometry Symposium Utrecht 1980, Lecture Notes in Math.

[1710.01519] From harmonic maps to the nonlinear supersymmetric sigma model of quantum field theory. At the interface of theoretical physics, Riemannian geometry and nonlinear analysis

Nordström, Harmonic morphisms from homogeneous Hadamard manifolds, Ann.

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