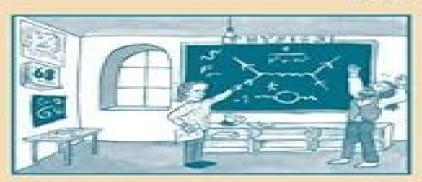
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Quantum Fields and Strings: A Course for Mathematicians

VOLUME 2









Pierre Deligne Pavel Etingof Daniel S. Freed Lisa C. Jeffrey David Kazhdan John W. Morgan David R. Morrison Edward Witten

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American Mathematical Society Institute for Advanced Study



Quantum Fields And Strings A Course For Mathematicians

Julia Schneider

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wanting to understand modern physics and physicists wanting to learn geometry. It gives an introduction to modern quantum field theory and related areas of theoretical high energy physics from the perspective of Riemannian geometry and an introduction to modern geometry as needed and utilized in modern physics I rgen Jost a well known research mathematician and advanced textbook author also develops important geometric concepts and methods that can be used for the structures of physics In particular he discusses the Lagrangians of the standard model and its supersymmetric extensions from a A Mathematical Introduction to Conformal Field Theory Martin Schottenloher, 2008-09-26 geometric perspective The first part of this book gives a self contained and mathematically rigorous exposition of classical conformal symmetry in n dimensions and its quantization in two dimensions. The second part surveys some more advanced topics of conformal field String-Math 2013 Ron Donagi, Michael R. Douglas, Ljudmila Kamenova, Martin Rocek, 2014-12-02 This volume contains the proceedings of the conference String Math 2013 which was held June 17 21 2013 at the Simons Center for Geometry and Physics at Stony Brook University This was the third in a series of annual meetings devoted to the interface of mathematics and string theory Topics include the latest developments in supersymmetric and topological field theory localization techniques the mathematics of quantum field theory superstring compactification and duality scattering amplitudes and their relation to Hodge theory mirror symmetry and two dimensional conformal field theory and many more This book will be important reading for researchers and students in the area and for all mathematicians and string theorists who want to update themselves on developments in the math string interface **Strings and Geometry** Clay Mathematics Institute. Summer School, Isaac Newton Institute for Mathematical Sciences, 2004 Contains selection of expository and research article by lecturers at the school Highlights current interests of researchers working at the interface between string theory and algebraic supergravity supersymmetry D branes the McKay correspondence and Fourer Mukai transform

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