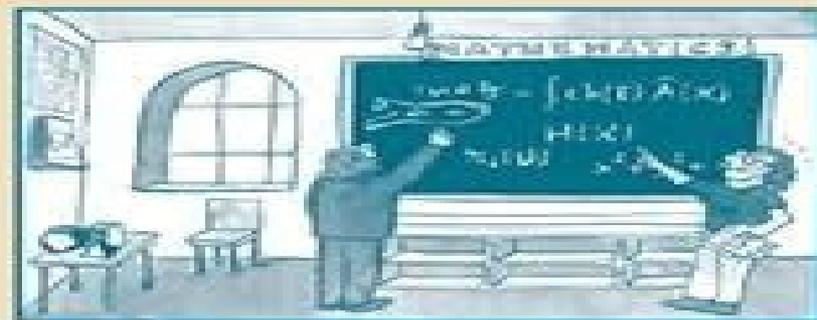
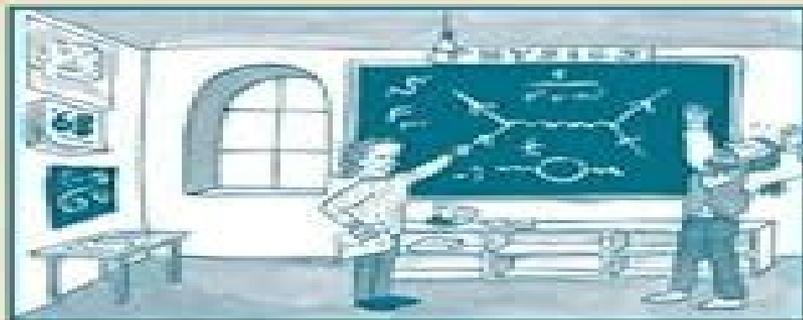


Quantum Fields and Strings: A Course for Mathematicians

VOLUME 2



Pierre Deligne David Kazhdan
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American Mathematical Society
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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 Jürgen 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 geometric perspective

[A Mathematical Introduction to Conformal Field Theory](#) Martin Schottenloher,2008-09-26 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 theory

[String-Math 2013](#) Ron Donagi, Michael R. Douglas, Ljudmila Kamenova, Martin Roček,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 Fourier-Mukai transform

Some Mathematical Aspects of Quantum Field Theory Qingtao Chen,2009

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Recent Developments in General Relativity, Genoa 2000 R. Cianci, R. Collina, M. Francaviglia, P. Fre,2002-07 A survey of the most recent developments in general relativity and in the theory of the unification of Fundamental Interactions is presented in this book The theoretical results the cosmological and astrophysical aspects the experimental and observational programs are shown in 26 general talks by renowned scientists active in this field

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Frobenius Algebras and 2-D Topological Quantum Field Theories Joachim Kock,2004 This 2003 book describes a striking connection between topology and algebra namely that 2D topological quantum field theories are equivalent to commutative Frobenius algebras

The precise formulation of the theorem and its proof is given in terms of monoidal categories and the main purpose of the book is to develop these concepts from an elementary level and more generally serve as an introduction to categorical viewpoints in mathematics. Rather than just proving the theorem, it is shown how the result fits into a more general pattern concerning universal monoidal categories for algebraic structures. Throughout the emphasis is on the interplay between algebra and topology with graphical interpretation of algebraic operations and topological structures described algebraically in terms of generators and relations. The book will prove valuable to students or researchers entering this field who will learn a host of modern techniques that will prove useful for future work.

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