



Quantum Fields and Strings: A Course for Mathematicians: v. 1

By Pierre Deligne, Pavel I. Etingof, Daniel S. Freed, Lisa C. Jeffrey, D. A. Kazhdan

American Mathematical Society. Paperback. Book Condition: new. BRAND NEW, Quantum Fields and Strings: A Course for Mathematicians: v. 1, Pierre Deligne, Pavel I. Etingof, Daniel S. Freed, Lisa C. Jeffrey, D. A. Kazhdan, Ideas from quantum field theory and string theory have had considerable impact on mathematics over the past 20 years. Advances in many different areas have been inspired by insights from physics. In 1996-97 the Institute for Advanced Study (Princeton, NJ) organized a special year-long program designed to teach mathematicians the basic physical ideas which underlie the mathematical applications. The purpose is eloquently stated in a letter written by Robert MacPherson: 'The goal is to create and convey an understanding, in terms congenial to mathematicians, of some fundamental notions of physics.[and to] develop the sort of intuition common among physicists for those who are used to thought processes stemming from geometry and algebra'. These volumes are a written record of the program. They contain notes from several long and many short courses covering various aspects of quantum field theory and perturbative string theory. The courses were given by leading physicists and the notes were written either by the speakers or by mathematicians who participated in the program. The book...



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I was pointed towards *Quantum Fields and Strings: A Course for Mathematicians* by Witten, Deligne, et al. Having taken a glance at the notes, it looks like just what I am after. However it also looks like it has some fairly heavy mathematical prerequisites. In quite a few areas of math I'm still get to go beyond an introductory course (e.g. algebraic topology, algebraic geometry, symplectic geometry, etc). I am happy to brush up and improve my knowledge in such fields, but there is no preface suggesting what topics or what level is expected of the reader. *Quantum Fields and Strings: A Course For Mathematicians* (P. Deligne, P. Etingof, D.S. Freed, L. Jeffrey, D. Kazhdan, J. Morgan, D.R. Morrison and E. Witten, eds.), 2 vols., American Mathematical Society, Providence, 1999. Dan Freed has prepared an introductory account of supersymmetry and classical field theory, published as: Daniel S. Freed, *Five Lectures on Supersymmetry*, American Mathematical Society, Providence, 1999. There were two followup workshops to this program, held at the Institute for Theoretical Physics, University of California, Santa Barbara. Lecture notes and audio recordings *A course for mathematicians* | Find, read and cite all the research you need on ResearchGate. version 2 of review. *Quantum Fields and Strings: A Course for Mathematicians, Volumes 1 and 2.* edited by Pierre Deligne, Pavel Etingof, Daniel S. Freed, Lisa C. Jeffrey, David Kazhdan, John W. Morgan, David R. Morrison, and Edward Witten. American Mathematical Society, Providence, Rhode Island, 1999. Introduction. These two volumes of roughly 1500 pages contain the lecture notes for courses given during the 1996-1997. Special Year in Quantum Field Theory held at the Institute for Advanced Study in Princeton. The stated goal. was to create and convey an understanding, in terms congenial to math... Start by marking *Quantum Fields and Strings; A Course for Mathematicians* as Want to Read: Want to Read saving... Ideas from quantum field theory and string theory have had considerable impact on mathematics over the past 20 years. Advances in many different areas have been inspired by insights from physics. In 1996-97 the Institute for Advanced Study (Princeton, New Jersey) organized a special year-long programme designed to teach mathematicians the basic physical ideas which underli Ideas from quantum field theory and string theory have had considerable impact on mathematics over the past 20 years. Advances in many different areas have been inspired by insights from physics.