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Quantum Field Theory And String Theory

**Cécile Dewitt-Morette, Jean-Bernard
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Quantum Field Theory And String Theory:

Quantum Field Theory and String Theory L Baulieu, Vladimir Dotsenko, Vladimir Kazakov, 1995-01-31 **Quantum Fields and Strings: A Course for Mathematicians** Pierre Deligne, Pavel Etingof, Daniel S. Freed, Lisa C. Jeffrey, David Kazhdan, John W. Morgan, David R. Morrison, Edward Witten, 1999-10-25 A runaway bestseller from the moment it hit the market in late 1999 This impressive thick softcover offers mathematicians and mathematical physicists the opportunity to learn about the beautiful and difficult subjects of quantum field theory and string theory Cover features an intriguing cartoon that will bring a smile to its intended audience Progress in String Theory and M-Theory North Atlantic Treaty Organization. Scientific Affairs Division, 2001-07-31 Proceedings of the NATO Advanced Study Institute Cargèse France May 24 June 5 1999 **Quantum Field Theory II** Edouard B. Manoukian, 2016-09-26 This book takes a pedagogical approach to explaining quantum gravity supersymmetry and string theory in a coherent way It is aimed at graduate students and researchers in quantum field theory and high energy physics The first part of the book introduces quantum gravity without requiring previous knowledge of general relativity GR The necessary geometrical aspects are derived afresh leading to explicit general Lagrangians for gravity including that of general relativity The quantum aspect of gravitation as described by the graviton is introduced and perturbative quantum GR is discussed The Schwinger DeWitt formalism is developed to compute the one loop contribution to the theory and renormalizability aspects of the perturbative theory are also discussed This follows by introducing only the very basics of a non perturbative background independent formulation of quantum gravity referred to as loop quantum gravity which gives rise to a quantization of space In the second part the author introduces supersymmetry and its consequences The generation of superfields is represented in detail Supersymmetric generalizations of Maxwell's Theory as well as of Yang Mills field theory and of the standard model are worked out Spontaneous symmetry breaking improvement of the divergence problem in supersymmetric field theory and its role in the hierarchy problem are covered The unification of the fundamental constants in a supersymmetric version of the standard model are then studied Geometrical aspects necessary to study supergravity are developed culminating in the derivation of its full action The third part introduces string theory and the analysis of the spectra of the mass squared operator associated with the oscillating strings The properties of the underlying fields associated with massless particles encountered in string theory are studied in some detail Elements of compactification duality and D branes are given as well of the generation of vertices and interactions of strings In the final sections the author shows how to recover GR and the Yang Mills field Theory from string theory Gauge Fields and Strings Polyakov, 2018-05-02 Based on his own work the author synthesizes the most promising approaches and ideals in field theory today He presents such subjects as statistical mechanics quantum field theory and their interrelation continuous global symmetry non Abelian gauge fields instantons and the quantum theory of loops and quantum strings and random surfaces This book is aimed at postgraduate students studying field theory and

statistical mechanics and for research workers in continuous global theory Introduction to Superstrings and M-Theory
Michio Kaku, 2012-12-06 Superstrings provocative controversial possibly untestable but unarguably one of the most interesting and active areas of research in current physics Called by some the theory of everything superstrings may solve a problem which has eluded physicists for the past 50 years the final unification of the two great theories of the twentieth century general relativity and quantum field theory Now here is a course tested comprehensive introductory graduate text on superstrings which stresses the most current areas of interest not covered in other presentation including string field theory multi loops Teichmueller spaces conformal field theory four dimensional strings The book begins with a simple discussion of point particle theory and uses the Feynman path integral technique to unify the presentation of superstrings Prerequisites are an acquaintance with quantum mechanics and relativity This second edition has been revised and updated throughout

What Is a Quantum Field Theory? Michel Talagrand, 2022-03-17 Quantum field theory QFT is one of the great achievements of physics of profound interest to mathematicians Most pedagogical texts on QFT are geared toward budding professional physicists however whereas mathematical accounts are abstract and difficult to relate to the physics This book bridges the gap While the treatment is rigorous whenever possible the accent is not on formality but on explaining what the physicists do and why using precise mathematical language In particular it covers in detail the mysterious procedure of renormalization Written for readers with a mathematical background but no previous knowledge of physics and largely self contained it presents both basic physical ideas from special relativity and quantum mechanics and advanced mathematical concepts in complete detail It will be of interest to mathematicians wanting to learn about QFT and with nearly 300 exercises also to physics students seeking greater rigor than they typically find in their courses Erratum for the book can be found at [michel talagrand net erratum pdf](#) *Mathematical Foundations of Quantum Field Theory and Perturbative String Theory*

Hisham Sati, 2014-06-05 **Strings, Branes and Dualities** L. Baulieu, Philippe Di Francesco, Michael Douglas, Vladimir Kazakov, Marco Picco, Paul Windey, 2012-12-06 As recent developments have shown supersymmetric quantum field theory and string theory are intimately related with advances in one area often shedding light on the other The organising ideas of most of these advances are the notion of duality and the physics of higher dimensional objects or p branes The topics covered in the present volume include duality in field theory in particular in supersymmetric field theory and supergravity and in string theory The Seiberg Witten theory and its recent developments are also covered in detail A large fraction of the volume is devoted to the current state of the art in M theory in particular its underlying superalgebra as well as its connection with superstring and N 2 strings The physics of D branes and its essential role in the beautiful computation of the black hole entropy is also carefully covered Finally the last two sets of lectures are devoted to the exciting matrix approach to non perturbative string theory **Quantum Field Theory: Perspective and Prospective** Cécile Dewitt-Morette, Jean-Bernard Zuber, 1999-03-31 Proceedings of the NATO Advanced Study Institute Les Houches France 15 26 June 1998

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