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String theory - Brian Greene

Episode 18: Clifford Johnson on What's So Great About Superstring Theory**Do we need a Theory of Everything?** *Scientific Controversies: String Theory* **String Theory And Fundamental Interactions**

Type I strings can go through five fundamental interactions, based on different ways of joining and splitting. The interactions are based on a string ' s ability to have ends join and split apart. Because the ends of open strings can join together to form closed strings, you can ' t construct a string theory without closed strings.

The Basic Elements of String Theory - dummies

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String Theory and Fundamental Interactions: Gabriele ...

String Theory and Fundamental Interactions Gabriele Veneziano and Theoretical Physics: Historical and Contemporary Perspectives. Editors (view affiliations) Maurizio Gasperini; ... starts as a broad historico-scientific study on the work on string theory and nonperturbative QCD that has been pioneered by Prof. Veneziano in the late 60s and ...

String Theory and Fundamental Interactions ¦ SpringerLink

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String Theory and Fundamental Interactions - Gabriele ...

String Theory and Fundamental Interactions. Home. The Project. Team Members. Publications. ... ads/cft, string phenomenology and cosmology. People interested in attending the meeting should contact one of the organizers: Gianguido Dall'Agata, Stefano Giusto, Luca Martucci by email at name.surname@pd.infn.it. ... The string theory group in ...

String Theory and Fundamental Interactions

String theory is a candidate for a unified theory of the four fundamental forces of nature: electromagnetism, the weak force, the strong force, and gravity.Particles in string theory are identified with particular patterns of vibration of a one-dimensional elementary object called a string.String theory is a quantum theory in that the mass spectrum of strings is discrete, so string theory is ...

String Theory ¦ Brilliant Math & Science Wiki

String theory, also known by names such as "superstring theory" and sometimes "M-theory", is an idea that has been around for a rather long time, over two decades. It is, at one and the same time, a logical continuation of established theoretical notions dating back

The Theory of Strings: A Detailed Introduction: Sunil Mukhi

The theory, which will manage to unify all forces, including gravity, is sometimes called TOE, "theory of everything". String theory is one candidate, and at present actually the only one for this TOE. Fig.: Left: Point particle interaction, Right: Closed string interaction, note the smooth interaction surface.

Fundamental Interactions - Institute of Theoretical Physics

In physics, the fundamental interactions, also known as fundamental forces, are the interactions that do not appear to be reducible to more basic interactions. There are four fundamental interactions known to exist: the gravitational and electromagnetic interactions, which produce significant long-range forces whose effects can be seen directly in everyday life, and the strong and weak interactions, which produce forces at minuscule, subatomic distances and govern nuclear interactions.

Fundamental interaction - Wikipedia

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An Introduction to String Theory

String theory is a set of attempts to model the four known fundamental interactions — gravitation, electromagnetism, strong nuclear force, weak nuclear force —together in one theory. This tries to resolve the alleged conflict between classical physics and quantum physics by elementary units —the one classical force: gravity, and a new quantum field theory of the other three fundamental forces.

String theory - Simple English Wikipedia, the free ...

Type I strings can go through five fundamental interactions, based on different ways of joining and splitting. The interactions are based on a string ' s ability to have ends join and split apart. Because the ends of open strings can join together to form closed strings, you can ' t construct a string theory without closed strings.

String Theory: Strings and Branes - dummies

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This book has been prepared to celebrate the 65th birthday of Gabriele Veneziano and his retirement from CERN in September 2007. This reti- ment certainly will not mark the end of his extraordinary scienti?c career (in particular, he will remain on the permanent sta? of the Coll` ege de France in Paris), but we believe that this important step deserves a special celebration, and an appropriate recognition of his monumental contribution to physics. Our initial idea of preparing a volume of Selected papers of Professor Gabriele Veneziano, possibly with some added commentary, was dismissed when we realized that this format of book, very popular in former times, has become redundant today because of the full " digitalization " of all important physical journals, and their availability online in the electronic archives. We have thus preferred an alternative (and unconventional, but probably more e?ective) form of celebrating Gabriele ' s birthday: a collection of new papers written by his main collaborators and friends on the various aspects of th- retical physics that have been the object of his research work, during his long and fruitful career.

Opening with an overview of the pioneering work of Prof. Gabriele Venziano on string theory and nonperturbative QCD, this volume examines the impact of this and similar early work. The book honors Prof. Veneziano on his retirement from CERN.

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A clear, plain-English guide to this complex scientific theory String theory is the hottest topic in physics right now, with books on the subject (pro and con) flying out of the stores. String Theory For Dummies offers an accessible introduction to this highly mathematical "theory of everything," which posits ten or more dimensions in an attempt to explain the basic nature of matter and energy. Written for both students and people interested in science, this guide explains concepts, discusses the string theory's hypotheses and predictions, and presents the math in an approachable manner. It features in-depth examples and an easy-to-understand style so that readers can understand this controversial, cutting-edge theory.

String theory is the candidate for the unification of all fundamental interactions including gravity. In the past few years this active field of research has developed very rapidly and in several different directions. The aim of the conference is to give an overview of the status of the art in string theory through the contributions of the major experts in this field. The main topics include: string unification and effective Lagrangians, N=2 string theories, 2-d quantum gravity, stringy black holes, topological field theory, conformal field theories, strings and quantum field theory.

This book is a unique report on the frontiers of subnuclear physics presented by world specialists in a clear, rigorous and simple way.The problem of the physical vacuum is presented in the opening lecture by T D Lee and the effective string-theoretical approach to cosmological vacua by G Veneziano. Effective theoretical approaches to light and heavy quark physics are presented by H Leutwyler and M Neubert. V N Gribov discusses the quark confinement and N Seiberg the problem of finding the effective actions in supersymmetric theories. A detailed analysis confronting electroweak theory with the high precision experimental data is presented by D Schildknecht. The great specialist in membrane theory, M Duff, presents the latest results of the 11-dimensional approach, while the finite temperature effective theories are discussed by M Shaposhnikov. The unification and the physics beyond the standard model constitute the content of the lectures by R Barbieri and D Nanopoulos. The experimental data from LEP and Hera are presented by M Pohl and G Wolf. N F Ramsey, the world specialist in the field, discusses how to explore the universe with atomic clocks. An elusive Z' is the subject of a specialised seminar by P Frampton.This volume contains the reports presented by a selected group of " new talents " on various topics in the field of subnuclear physics.

In this book, the author leads the reader, step by step and without any advanced mathematics, to a clear understanding of the foundations of modern elementary particle physics and cosmology. He also addresses current and controversial questions on topics such as string theory. The book contains gentle introductions to the theories of special and general relativity, and also classical and quantum field theory. The essential aspects of these concepts are understood with the help of simple calculations; for example, the force of gravity as a consequence of the curvature of the space-time. Also treated are the Big Bang, dark matter and dark energy, as well as the presently known interactions of elementary particles: electrodynamics, the strong and the weak interactions including the Higgs boson. Finally, the book sketches as yet speculative theories: Grand Unification theories, supersymmetry, string theory and the idea of additional dimensions of space-time. Since no higher mathematical or physics expertise is required, the book is also suitable for college and university students at the beginning of their studies. Hobby astronomers and other science enthusiasts seeking a deeper insight than can be found in popular treatments will also appreciate this unique book.

This memorial volume on the work of Wolfgang Kummer brings together articles devoted to the history of high energy physics with detailed coverage on the scientific concepts and scientific institutions, in particular CERN OCo and the underlying physics involved. Covering recent advances and developments as well as giving a reminiscent overview in two rapidly evolving fields of high energy/particle physics, and gravitational physics, the commemorative volume contains more than 20 original invited paper contributions OCo which will appear for the first time in print OCo from eminent and renowned physicists who interacted and collaborated with Wolfgang Kummer, including Physics Nobel Laureate Jack Steinberger. Wolfgang Kummer was president of the CERN council from 1985 to 1987, among his numerous eminent academic and administrative positions which he held during his illustrious career. This volume also aims to demonstrate and highlight Wolfgang Kummer"s significant contribution to the foundational work in gauge field theory, particle physics, and quantum gravity, and the tremendous impact leading to cutting-edge findings and advances at LHC. Sample Chapter(s). Foreword (155 KB). Chapter 1: Noncovariant Gauges at Zero and Nonzero Temperature (215 KB). Contents: Gauge Field Theory and Particle Physics: Noncovariant Gauges at Zero and Nonzero Temperature (P V Landshoff); Non-Relativistic Bound States: The Long Way Back from the BetheOCoSalpeter to the SchrÄdinger Equation (A Vairo); Distended/Diminished Topologically Massive Electrodynamics (S Deser); Dynamical Spin (P G O Freund); Quantum Corrections to Solitons and BPS Saturation (A Rebhan et al.); Gauging Noncommutative Theories (H Grosse & M Wohlgenannt); Topological Phases and Contextuality Effects in Neutron Quantum Optics (H Rauch); First Class Constrained Systems and Twisting of Courant Algebroids by a Closed 4-Form (M Hansen & T Strobl); Some Local and Global Aspects of the Gauge Fixing in YangOCoMills-Theories (D N Blaschke et al.); Frozen Ghosts in Thermal Gauge Field Theory (P V Landshoff & A Rebhan); Classical and Quantum Gravity: Wolfgang Kummer and the Vienna School of Dilaton (Super-)Gravity (L Bergamin & R Meyer); Order and Chaos in Two Dimensional Gravity (R B Mann); 2-D Midisuperspace Models for Quantum Black Holes (J Gegenberg & G Kunstatter); Global Solutions in Gravity. Euclidean Signature (M O Katanaev); Thoughts on the Cosmological Principle (D J Schwarz); When Time Emerges (C Faustmann et al.); Towards Noncommutative Gravity (D V Vassilevich); Superembedding Approach to Superstring in AdS 5 X S 5 Superspace (I A Bandos); Heterotic (0,2) Gepner Models and Related Geometries (M Kreuzer); Canonical Analysis of Cosmological Topologically Massive Gravity at the Chiral Point (D Grumiller et al.); Wolfgang Kummer and the Physics Community: Wolfgang Kummer at CERN (H Schopper); Wolfgang Kummer and the Little Lost Lane Boy (K Lane); Mitigation of Fossil Fuel Consumption and Global Warming by Thermal Solar Electric Power Production in the World"s Deserts (J Steinberger); (My) Life with Wolfgang Kummer (M Schweda); Schubert in Stony Brook and Kinks in Vienna (P van Nieuwenhuizen). Readership: Scientists, researchers, graduates and undergraduates interested in high energy, particle or gravitational physics."