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## *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.

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email at name.surname@pd.infn.it. ... The

string theory group in ...

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## **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

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"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.:

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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

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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

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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 ...**

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## **String Theory: Strings and Branes - dummies**

String Theory and Fundamental Interactions by Maurizio Gasperini, 9783540742326, available at Book Depository with free delivery worldwide.

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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  
retirement certainly will not mark the end of

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his extraordinary scientific career (in particular, he will remain on the permanent staff of the Collège 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

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availability online in the electronic  
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alternative (and unconventional, but probably  
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have been the object of his research work,  
during his long and fruitful career.

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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

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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.

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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

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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.

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Hobby astronomers and other science enthusiasts seeking a deeper insight than can be found in popular treatments will also appreciate this unique book.

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

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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.

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

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presented in the opening lecture by T D Lee and the effective string-theoretical approach to cosmological vacua by G Veneziano.

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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.

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