

General relativity

From the world learned of the revolutionary Special Theory of Relativity proposed by Albert Einstein and published in 1905, physics underwent its most revolutionary change since the days of Isaac Newton. Nevertheless, Einstein had yet another surprise left: the so-called General Theory of Relativity, of 1916—a much more complex and complete theory from which several interesting predictions arise and have been confirmed over time.

Why a second theory?

According to Einstein, the laws of physics must be the same for all observers. In Newton's theory, only objects at rest or moving at a constant velocity are considered, and not the accelerated motion of objects. In the General Theory of Relativity, objects are subject to acceleration forces caused by mass, instead of constant acceleration. Einstein solved the problem of providing his theory by providing the equivalence principle.

A deformed universe

Einstein established that gravity was not a force, but rather the consequence of the deformation of space-time that any body with mass generates. Mass, when approaching a point, for example, an object is not attracted by any force, but it travels through that curved deformation.

The most characteristic of gravity, observed in the motion of celestial bodies, is the bending of light rays.

Light that bends

Perhaps the most surprising confirmation of one of Einstein's predictions, based on the General Theory of Relativity, happened in 1919 during the course of a solar eclipse.

According to the General Theory of Relativity, the massive bodies of the universe deform the space-time around them. The light rays, when passing near a massive body, are deflected by the curvature of space-time, which is caused by the mass of the body. This is the bending of light rays.

In 1919, during a total solar eclipse, the light rays from the stars were deflected by the gravity of the Sun, which was observed by the astronomers.



4 dimensions
For the universe according to Einstein, space, although the fourth dimension, is not independent from the other three (length, width, and height).

Gravitational lenses

Another prediction based on the General Theory of Relativity concerns gravitational lenses. Because of the phenomenon, which is also related to the equivalence principle caused by gravity, the image of certain far stars and galaxies is deformed when seen from the Earth.



HERSCHEL A. LORENTZ

The Dutch physicist demonstrated that the speed of light is constant in all reference frames. This was a revolutionary discovery at the time, as it contradicted the classical physics theory, which stated that the speed of light was constant only in the reference frame of the observer. Lorentz's discovery was a key step in the development of the Special Theory of Relativity.

Electromagnetic waves

Einstein proposed that as objects approached their speed of light, the observation of objects, in other words, this would make them lose energy. Electromagnetic waves, "particles" whose frequency (that is, they become smaller), this effect would cause a redshift in the observed frequency waves.



Perturbation of Mercury's orbit

Astronomers had discovered a discrepancy in the observed position of the planet Mercury that could not be explained by Newtonian or classical physics without including some hypothetical planet. Einstein used his theory to explain the discrepancy, eliminating the problem of the missing planet.



76 years
After Einstein's theory was published in 1916, it took 76 years for the theory to be fully accepted by the scientific community.

Status Of General Relativity

Jiří Bičák, Tomáš Ledvinka



Status Of General Relativity:

Status of General Relativity William B. Bonnor, 1969 **The Genesis of General Relativity** Jürgen Renn, 2007-02-16
This four volume work represents the most comprehensive documentation and study of the creation of general relativity Einstein's 1912 Zurich notebook is published for the first time in facsimile and transcript and commented on by today's major historians of science Additional sources from Einstein and others who from the late 19th to the early 20th century contributed to this monumental development are presented here in translation for the first time The volumes offer detailed commentaries and analyses of these sources that are based on a close reading of these documents supplemented by interpretations by the leading historians of relativity

General Relativity Simplified & Assessed Taha Sochi, 2022-08-17
This book is about the general theory of relativity which is concisely labeled as general relativity The book is the result of a rather extensive view to the literature of this theory over most of its lifetime reflecting various stages of its development The book contains 129 solved problems as well as 606 exercises whose detailed solutions are published in another book that accompanies the present book The book also includes a detailed index and many cross references The book can be used as an introduction to general relativity at undergraduate and graduate levels Unlike most other books on general relativity which are mostly dedicated to the presentation justification application and validation of the formalism of the theory and hence rather minor attention is usually paid to the interpretation and epistemology of the theory this book is primarily interested in the interpretative and epistemological aspects of the theory

Einstein's Space-Time Rafael Ferraro, 2007-06-07 This excellent textbook offers a unique take on relativity theory setting it in its historical context Ideal for those interested in relativity and the history of physics the book contains a complete account of special relativity that begins with the historical analysis of the reasons that led to a change in our view of space and time Its aim is to foster a deep understanding of relativistic spacetime and its consequences for Dynamics

Progress in Physics, vol. 2/2015 Dmitri Rabounski, Florentin Smarandache, Larissa Borissova, The Journal on Advanced Studies in Theoretical and Experimental Physics including Related Themes from Mathematics

Literature 1984, Part 2 S. Böhme, Prof. Dr. Walter Fricke, H. Hefe, Inge Heinrich, W. Hofmann, D. Krahn, V. R. Matas, Dr. Lutz D. Schmadel, G. Zech, 2013-04-17

Essays in General Relativity Frank J. Tipler, 1980 Essays in General Relativity A Festschrift for Abraham Taub is collection of essays to honor Professor Abraham H Taub on the occasion of his retirement from the mathematics faculty of the University of California at Berkeley Relativistic hydrodynamics has always been a subject dear to Taub's heart In fact many basic results on special relativistic fluid flows are due to him and he has been a major contributor to the study of fluid flows near shocks The book contains 16 chapters and begins with a discussion of a geometrical approach to general relativity This is followed by separate chapters

Introduction to General Relativity Ronald Adler, Maurice Bazin, Menahem Schiffer, 1975

The Universe of General Relativity A.J. Kox, Jean Eisenstaedt, 2006-09-10 A century ago in 1905 Albert Einstein published On the Electrodynamics of Moving Bodies in

which the foundations were laid for the Special Theory of Relativity Ten years later his relativistic theory of gravitation and the General Theory of Relativity appeared Fifty years ago Einstein passed away in Princeton In the 1980s John Stachel then Editor of the Collected Papers of Albert Einstein brought together a group of historians philosophers physicists and mathematicians who had one thing in common a lively interest in the history and foundations of the theories of relativity At a meeting in 1986 at Osgood Hill this group met for the first time to discuss the prehistory development reception and other aspects of relativity It was the beginning of a valuable tradition Since then every three or four years a meeting has been organized during which historical and foundational issues in general and special relativity have been discussed Osgood Hill was followed by Luminy in 1988 Then came Johnstown 1991 Berlin 1995 Notre Dame 1999 and finally Amsterdam 2002 the proceedings of which are presented in this volume supplemented with some papers from the preceding meeting Once again these articles clearly show that an historical approach can lead to new insights into the development and elaboration of relativity The prehistory of special relativity and an early attempt at a relativistic theory of gravitation are covered in papers by John Stachel and Shaul Katzir respectively General Relativity, Cosmology and Astrophysics Jiří Bičák, Tomáš Ledvinka, 2014-06-22 The articles included in this Volume represent a broad and highly qualified view on the present state of general relativity quantum gravity and their cosmological and astrophysical implications As such it may serve as a valuable source of knowledge and inspiration for experts in these fields as well as an advanced source of information for young researchers The occasion to gather together so many leading experts in the field was to celebrate the centenary of Einstein's stay in Prague in 1911 1912 It was in fact during his stay in Prague that Einstein started in earnest to develop his ideas about general relativity that fully developed in his paper in 1915 Approaching soon the centenary of his famous paper this volume offers a precious overview of the path done by the scientific community in this intriguing and vibrant field in the last century defining the challenges of the next 100 years The content is divided into four broad parts i Gravity and Prague ii Classical General Relativity iii Cosmology and Quantum Gravity and iv Numerical Relativity and Relativistic Astrophysics **General Relativity** Hans Stephani, 1990-06-29 This is an excellent introduction to the subjects of gravitation and space time structure It discusses the foundations of Riemann geometry the derivation of Einstein field equations linearised theory far fields and gravitational waves the invariant characterisation of exact solutions gravitational collapse cosmology as well as alternative gravitational theories and the problem of quantum gravity **Nuclear Science Abstracts** , 1974 Sommerfeld's Theory of Fine Structure from the Standpoint of General Relativity Charles Fabry, Donald C. Stockbarger, M. DeKay Thompson, Manuel Sandoval Vallarta, Massachusetts Institute of Technology. Rogers Laboratory of Physics, Max Knobel, Paul Heymans, W. J. Heymans, 1924 *The Genesis of General Relativity* Jürgen Renn, 2007-06-17 The transition from classical to modern physics in the first half of the twentieth century by quantum and relativity theories affected some of the most fundamental notions of physical thinking such as matter radiation space and time This transition thus represents a challenge

for any attempt to understand the structures of a scientific revolution. The present four volume work aims at a comprehensive account of the way in which the work of Albert Einstein and his contemporaries changed our understanding of space time and gravitation. The conceptual framework of classical nineteenth century physics had to be fundamentally restructured and reinterpreted in order to arrive at a theory of gravitation compatible with the new notions of space and time established in 1905 by Einstein's special theory of relativity. Whereas the classical theory of gravitation postulated an instantaneous action at a distance, Einstein's new relativistic kinematics rather suggested an analogy between the gravitational field and the electromagnetic field propagating with a finite speed. It is therefore not surprising that Einstein was not alone in addressing the problem of formulating a theory of gravitation that complies with the kinematics of relativity theory. The analysis of these alternative approaches as well as of earlier alternative approaches to gravitation within classical physics turns out to be crucial for identifying the necessities and contingencies in the actual historical development.

The Theory of General Relativity and Gravitation Ludwik Silberstein, 1922

Einstein, Hilbert, and The Theory of Gravitation Jagdish Mehra, 2012-12-06

Some time ago I published a small piece dealing with a charming little essay on the state of ether in magnetic fields which the sixteen year old Einstein had written while he was awaiting admission to the ETH in Zurich. This paper sought to trace the continuity between Einstein's early interest in electrodynamics and his later work on the special and general relativity theories. On reading this paper Professor Eugene Wigner asked me whether David Hilbert had not independently discovered the field equations of gravitation. His impression from his stay in Göttingen where Wigner had been Hilbert's assistant for one year in the late nineteen twenties was that Hilbert had indeed done so and he asked me if it was true. I replied to Professor Wigner about Hilbert's contribution to the theory of gravitation. He kindly encouraged me to expand my account to deal with the intricate and exciting details of the early years in the formulation of the general relativity theory of gravitation. This is what I have sought to do in this study. Albert Einstein created the general relativity theory of gravitation and dominated its development through the rest of his life. His early work on the theory of gravitation from 1912 to 1916 had the drama of high adventure. It culminated in the establishment of its foundations which have remained unassailed by the theoretical and experimental work of succeeding decades.

The Expanding Worlds of General Relativity Hubert Goenner, Jürgen Renn, Jim Ritter, Tilman Sauer, 1998-12-01

The past decade has seen a considerable surge of interest in historical and philosophical studies of gravitation and relativity due not only to the tremendous amount of world wide research in general relativity and its theoretical and observational consequences but also to an increasing awareness that a collaboration between working scientists, historians and philosophers of science is in this field particularly promising for all participants. The expanding activity in this field is well documented by recent volumes in this Einstein Studies series on the History of General Relativity as well as by a series of international conferences on this topic at Osgood Hill 1986, Luminy 1988 and Pittsburgh 1991. The fourth of these conferences hosted by the Max Planck Institute for the

History of Science was held in Berlin from 31 July to 3 August 1995 with a record attendance of some 80 historians and philosophers of science physicists mathematicians and astronomers Based on presentations at the Berlin conference this volume provides an overview of the present state of research in this field documenting not only the increasing scope of recent investigations in the history of relativity and gravitation but also the emergence of several key issues that will probably remain at the focus of debate in the near future

RELATIVITY IN THE MAKING The papers of this section deal with the origins and genesis of relativity theory

General Physics, Relativity, Astronomy and Plasmas, 1980

Thinking About Space and Time Claus Beisbart, Tilman Sauer, Christian Wüthrich, 2020-09-25 This volume offers an integrated understanding of how the theory of general relativity gained momentum after Einstein had formulated it in 1915 Chapters focus on the early reception of the theory in physics and philosophy and on the systematic questions that emerged shortly after Einstein's momentous discovery They are written by physicists historians of science and philosophers and were originally presented at the conference titled Thinking About Space and Time 100 Years of Applying and Interpreting General Relativity held at the University of Bern from September 12-14 2017 By establishing the historical context first and then moving into more philosophical chapters this volume will provide readers with a more complete understanding of early applications of general relativity e.g. to cosmology and of related philosophical issues Because the chapters are often cross disciplinary they cover a wide variety of topics related to the general theory of relativity These include Heuristics used in the discovery of general relativity Mach's Principle The structure of Einstein's theory Cosmology and the Einstein world Stability of cosmological models The metaphysical nature of spacetime The relationship between spacetime and dynamics The Geodesic Principle Symmetries Thinking About Space and Time will be a valuable resource for historians of science and philosophers who seek a deeper knowledge of the early and later uses of general relativity as well as for physicists and mathematicians interested in exploring the wider historical and philosophical context of Einstein's theory

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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