

GÖDEL MEETS EINSTEIN



Time Travel in the Gödel Universe

Palle Yourgrau

Godel Einstein And The Universe

John P. Dwoletzky



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Gödel Meets Einstein Palle Yourgrau, 1999 What happens when the century's greatest logician meets the century's greatest physicist In the case of Kurt Gödel and Albert Einstein the result is Gödel's revolutionary new world models for relativity theory Although most famous for his Incompleteness Theorems in mathematical logic Gödel was a philosopher in his own right with a special interest in the philosophical problem of Time Most people are unaware that Gödel and Einstein were close friends for many years at Princeton's Institute for Advanced Study Gödel extended Einstein's General Theory of Relativity with cosmological models now known as Gödel Universes with extraordinary properties including the possibility of closed timelike curves that allow the philosophical fantasy of time travel to become a scientific reality For Gödel however the reality of time travel signals the unreality of time If he's right the real meaning of the Einstein revolution remained a secret for half a century and is only being revealed now [A World Without Time](#) Palle Yourgrau, 2009-03-04 It is a widely known but little considered fact that Albert Einstein and Kurt Gödel were best friends for the last decade and a half of Einstein's life The two walked home together from Princeton's Institute for Advanced Study every day they shared ideas about physics philosophy politics and the lost world of German science in which they had grown up By 1949 Gödel had produced a remarkable proof In any universe described by the Theory of Relativity time cannot exist Einstein endorsed this result reluctantly since it decisively overthrew the classical world view to which he was committed But he could find no way to refute it and in the half century since then neither has anyone else Even more remarkable than this stunning discovery however was what happened afterward nothing Cosmologists and philosophers alike have proceeded with their work as if Gödel's proof never existed one of the greatest scandals of modern intellectual history *A World Without Time* is a sweeping ambitious book and yet poignant and intimate It tells the story of two magnificent minds put on the shelf by the scientific fashions of their day and attempts to rescue from undeserved obscurity the brilliant work they did together *When Einstein Walked with Gödel* Jim Holt, 2018-05-15 A collection of essays on philosophy mathematics and science and the people who pursue them **E = Einstein** Donald Goldsmith, Marcia Bartusiak, 2008-08 In the history of physics there has been no greater visionary than Albert Einstein Through his revolutionary Theory of Relativity he changed the way we look at the universe But there is more to Einstein than just $E = mc^2$ In addition to contributing to many branches of physical science relates Gerald Holton he also published widely on social and philosophical issues He challenged current philosophies both of science and of the state He waged a constant fight for individual liberty and dignity against persecution and war Einstein's ideas and views continue to play a role in contemporary science and in the popular imagination Now two distinguished editors have compiled an enlightening collection of important and penetrating essays that shed light on many fascinating aspects of this great man The esteemed contributors cover both important milestones and lesser known facts to present a thoughtful portrait Historical black and white photographs and color illustrations complete this engaging anthology

Book jacket *Einstein's Cosmos* Michio Kaku, 2010-03-01 A fresh and highly visual tour through Einstein's astonishing legacy Brian Greene There's no better short book that explains just what Einstein did than Einstein's Cosmos Keying Einstein's crucial discoveries to the simple mental images that inspired them Michio Kaku finds a revealing new way to discuss his ideas and delivers an appealing and always accessible introduction to Einstein's work **My Einstein** John Brockman, 2007-08-14 In this fascinating volume today's foremost scientists discuss their own versions and visions of Einstein how he has influenced their worldviews their ideas their science and their professional and personal lives These twenty-four essays are a testament to the power of scientific legacy and are essential reading for scientist and layperson alike Contributors include Roger Highfield on the Einstein myth John Archibald Wheeler on his meetings with Einstein Gino C Segrè Lee Smolin and Anton Zeilinger on Einstein's difficulties with quantum theory Leon M Lederman on the special theory of relativity Frank J Tipler on why Einstein should be seen as a scientific reactionary rather than a scientific revolutionary

Disturbing, But Not Surprising Giora Hon, 1993 *Hyperspace* Michio Kaku, 1994-03-24 Discusses why physicists think that universes are parallel plural and full of wormholes *Kurt Gödel and the Foundations of Mathematics* Matthias Baaz, Christos H. Papadimitriou, Hilary W. Putnam, Dana S. Scott, Charles L. Harper, Jr, 2011-06-06 This volume commemorates the life work and foundational views of Kurt Gödel 1906-78 most famous for his hallmark works on the completeness of first order logic the incompleteness of number theory and the consistency with the other widely accepted axioms of set theory of the axiom of choice and of the generalized continuum hypothesis It explores current research advances and ideas for future directions not only in the foundations of mathematics and logic but also in the fields of computer science artificial intelligence physics cosmology philosophy theology and the history of science The discussion is supplemented by personal reflections from several scholars who knew Gödel personally providing some interesting insights into his life By putting his ideas and life's work into the context of current thinking and perceptions this book will extend the impact of Gödel's fundamental work in mathematics logic philosophy and other disciplines for future generations of researchers STUDIES ON GRAVITATIONAL FIELD EQUATIONS AND IMPORTANT RESULTS OF RELATIVISTIC COSMOLOGY Dr. Amit Prakash, 2019-11-07 We live in this universe Hence it is essential to understand the origin evolution and ultimate fate of the universe This can be effectively done by constructing mathematical models of the universe using Einstein's theory of gravitation and other modified theories of gravitation The models thus obtained can be compared with the present day observations to decide about the shape physics and origin of the universe With this motivation we have taken up the investigations in this book entitled STUDIES ON GRAVITATIONAL FIELD EQUATIONS AND IMPORTANT RESULTS OF RELATIVISTIC COSMOLOGY This book comprises of six chapters and deals with some spatially homogeneous isotropic and anisotropic cosmological models of the universe in some modified theories of gravitation **Math Makers: The Lives and Works of 50 Famous Mathematicians** Alfred S. Posamentier, Christian Spreitzer, 2024-11-20 Discover the captivating

stories behind the greatest minds in mathematics Mathematics today is the fruit of centuries of brilliant insights by men and women whose personalities and life experiences were often as extraordinary as their mathematical achievements This entertaining history of mathematics chronicles those achievements through 50 short biographies that bring these great thinkers to life while making their contributions understandable to the masses Among the fascinating characters profiled are Isaac Newton 1642 1727 the founder of classical physics and infinitesimal calculus he frequently quarrelled with fellow scientists and was obsessed with alchemy and arcane Bible interpretation Sophie Germain 1776 1831 who studied secretly at the cole Polytechnique in Paris using the name of a previously enrolled male student she is remembered for her work on Fermat s Last Theorem and on elasticity theory and Srinivasa Ramanujan 1887 1920 who came from humble origins in India and had almost no formal training yet made substantial contributions to mathematical analysis number theory infinite series and continued fractions The unusual behavior and life circumstances of these and many other intriguing personalities make for fascinating reading and a highly enjoyable introduction to mathematics

Gödel '96 Petr Hájek, 2017-03-02 The proceedings of the conference Logical Foundations of Mathematics Computer Science and Physics Kurt G del s Legacy held in Brno Czech Republic on the 90th anniversary of G del s birth The papers in this volume cover the wide range of topics G del s work touched and affirm its continuing importance

The Illusion of Death John P. Dworetzky, 2008-05-01 The Illusion of Death is a rational examination of what might happen to us after we die guided solely by science reason and logic Each consciousness has its own unique combination of something that gives rise to it and it alone and not to a different consciousness What then is there to prevent the same combination from occurring once again after death causing each person to be conscious and alive anew Using the most recent research from fields as disparate as psychology physics and philosophy Dr John Dworetzky examines the possibilities of an afterlife and comes to a surprising but comforting conclusion

Psychoanalysis, Intersubjective Writing, and a Postmaterialist Model of Mind Dan Gilhooley, Frank Toich, 2019-09-23 In this in depth and unique collaboration between a patient and his psychoanalyst Psychoanalysis Intersubjective Writing and a Postmaterialist Model of Mind I Woke Up Dead examines the unconscious mind by analysing the patient s novel written during his treatment as the focus Using the patient s creative writing and their intersubjective relationship as evidence Dan Gilhooley and Frank Toich show how psychoanalysis fits within a postmaterialist model of mind In this ground breaking exploration Gilhooley and Toich together demonstrate how a nonlocal unconscious can reshape the psychoanalytic conception of the mind Split into four parts Intersubjective Quantum History and Collaboration Dan introduces three themes in the first recovery from death the intersubjective nature of therapeutic work and the role of creative imagination combining these themes with analysis of Frank s work and short related stories from his own life Part II Quantum introduces the concept of nonlocality to describe the mind and draws on the appearance of quantum physics in Frank s science fiction before moving onto Part III History which examines the emergence of psychoanalysis out of animal magnetism looking at

rapport telepathy and love in psychotherapy Finally Collaboration discusses their ongoing psychotherapeutic experiment the role of imagination dissociation and the cosmic mind in psychological growth Interweaving creative writing psychoanalytic theory and real life stories the book re contextualizes the history and future of psychoanalysis Due to its multidisciplinary nature this book will appeal to psychotherapists and psychologists in practice and in training It would also be a vital resource for academics and students of counseling consciousness studies psychoanalysis psychotherapy and psychology

On Leibniz Nicholas Rescher, 2014-07-15 Contemporary philosopher John Searle has characterized Gottfried Wilhelm Leibniz 1646 1716 as the most intelligent human being who has ever lived The German philosopher mathematician and logician invented calculus independently of Sir Isaac Newton topology determinants binary arithmetic symbolic logic rational mechanics and much more His metaphysics bequeathed a set of problems and approaches that have influenced the course of Western philosophy from Kant in the eighteenth century until the present day *On Leibniz* examines many aspects of Leibniz's work and life This expanded edition adds new chapters that explore Leibniz's revolutionary deciphering machine his theoretical interest in cryptography and its ties to algebra his thoughts on eternal recurrence theory his rebuttal of the thesis of improbability in the world and cosmos and an overview of American scholarship on Leibniz Other chapters reveal Leibniz as a substantial contributor to theories of knowledge Discussions of his epistemology and methodology its relationship to John Maynard Keynes and Talmudic scholarship broaden the traditional view of Leibniz Rescher also views Leibniz's scholarly development and professional career in historical context As a philosopher courtier to the Hanoverian court Leibniz was associated with the leading intellectuals and politicians of his era including Spinoza Huygens Newton Queen Sophie Charlotte and Tsar Peter the Great Rescher extrapolates the fundamentals of Leibniz's ontology the theory of possible worlds the world's contingency space time frameworks and intermonadic relationships In conclusion Rescher positions Leibniz as a philosophical role model for today's scholars He argues that many current problems can be effectively addressed with principles of process philosophy inspired by Leibniz's system of monadology

Time Machine Tales Paul J. Nahin, 2016-12-24 This book contains a broad overview of time travel in science fiction along with a detailed examination of the philosophical implications of time travel The emphasis of this book is now on the philosophical and on science fiction rather than on physics as in the author's earlier books on the subject In that spirit there are for example no Tech Notes filled with algebra integrals and differential equations as there are in the first and second editions of *TIME MACHINES* Writing about time travel is today a respectable business It hasn't always been so After all time travel *prima facie* appears to violate a fundamental law of nature every effect has a cause with the cause occurring before the effect Time travel to the past however seems to allow indeed to demand backwards causation with an effect the time traveler emerging into the past as he exits from his time machine occurring before its cause the time traveler pushing the start button on his machine's control panel to start his trip backward through time *Time Machine Tales* includes new discussions of the advances by physicists and

philosophers that have appeared since the publication of TIME MACHINES in 1999 examples of which are the chapters on time travel paradoxes Those chapters have been brought up to date with the latest philosophical thinking on the paradoxes

Time Machines Paul J. Nahin, 2001-04-20 This book explores the idea of time travel from the first account in English literature to the latest theories of physicists such as Kip Thorne and Igor Novikov This very readable work covers a variety of topics including the history of time travel in fiction the fundamental scientific concepts of time spacetime and the fourth dimension the speculations of Einstein Richard Feynman Kurt Goedel and others time travel paradoxes and much more

Kurt Gödel William D. Brewer, 2022-09-08 During his lifetime Kurt G del was not well known outside the professional world of mathematicians philosophers and theoretical physicists Early in his career for his doctoral thesis and then for his Habilitation Dr Sci he wrote earthshaking articles on the completeness and provability of mathematical logical systems upsetting the hypotheses of the most famous mathematicians philosophers of the time He later delved into theoretical physics finding a unique solution to Einstein s equations for gravity the G del Universe and made contributions to philosophy the guiding theme of his life This book includes more details about the context of G del s life than are found in earlier biographies while avoiding an elaborate treatment of his mathematical scientific philosophical works which have been described in great detail in other books In this way it makes him and his times more accessible to general readers and will allow them to appreciate the lasting effects of G del s contributions the latter in a more up to date context than in previous biographies many of which were written 15 25 years ago His work spans or is relevant to a wide spectrum of intellectual endeavor and this is emphasized in the book with recent examples This biography also examines possible sources of his unusual personality which combined mathematical genius with an almost childlike naivet concerning everyday life and striking scientific innovations with timidity and hesitancy in practical matters How he nevertheless had a long and successful career inspiring many younger scholars along the way with the help of his loyal wife Adele and some of his friends is a fascinating story in human nature

Divine Foreknowledge and Human Freedom William Lane Craig, 1991 The ancient problem of fatalism more particularly theological fatalism has resurfaced with surprising vigour in the second half of the twentieth century Two questions predominate in the debate 1 Is divine foreknowledge compatible with human freedom and 2 How can God foreknow future free acts Having surveyed the historical background of this debate in *The Problem of Divine Foreknowledge and Future Contingents from Aristotle to Suarez* Brill 1988 William Lane Craig now attempts to address these issues critically His wide ranging discussion brings together a thought provoking array of related topics such as logical fatalism multivalent logic backward causation precognition time travel counterfactual logic temporal necessity Newcomb s Problem middle knowledge and relativity theory The present work serves both as a useful survey of the extensive literature on theological fatalism and related fields and as a stimulating assessment of the possibility of divine foreknowledge of future free acts

Quantitative Studies in Philosophy Nicholas Rescher, 2021-10-06 Philosophy and mathematics grew up

together in the days of Pythagoras and Plato Indeed they have been in constant companionship and interaction ever since This book examines 15 of these interactions some dealing with the greats of history such as Aristotle and Leibniz some addressing modern greats such as Einstein Schrodinger and G del and some dealing not with themes but rather the thinkers Taken together they represent a characteristic sampling of the author s philosophical investigations over more than three decades

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