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The Reality of Numbers

A Physicalist's Philosophy
of Mathematics

John Bigelow

Reality Of Numbers A Physicalists Philosophy Of Mathematics

Eric P. Polten



Reality Of Numbers A Physicalists Philosophy Of Mathematics:

The Reality of Numbers John Bigelow, 1988 This book casts new light on mathematics through its consideration of metaphysical materialism The author identifies natural real and imaginary numbers and sets with specified physical properties and relations However sets are construed numbers are not sets Sets are important simply because they instantiate all the numbers and all the other properties and relations studied in mathematics Set theory tempts us into misunderstanding the nature of mathematics Bigelow challenges the myth that mathematical objects can be defined into existence By reconstruing numbers as real non linguistic physical properties or relations mathematics can be drawn back from its sterile abstract exile into the midst of the physical world to which we belong **Canadian Journal of Philosophy**, 1971 *The Oxford Handbook of The History of Analytic Philosophy* Michael Beaney, 2013-06-20 The main stream of academic philosophy in Anglophone countries and increasingly worldwide is identified by the name analytic The study of its history from the 19th century to the late 20th has boomed in recent years These specially commissioned essays by forty leading scholars constitute the most comprehensive book on the subject **CURRENT CONTENTS**, 1994 **Who's who in Australia**, 1995

Idealism Tyron Goldschmidt, Kenneth L. Pearce, 2017 Idealism is a family of metaphysical views each of which gives priority to the mental The best known forms of idealism in Western philosophy are Berkeleyan idealism which gives ontological priority to the mental minds and ideas over the physical bodies and Kantian idealism which gives a kind of explanatory priority to the mental the structure of the understanding over the physical the structure of the empirical world Although idealism was once a dominant view in Western philosophy it has suffered almost total neglect over the last several decades This book rectifies this situation by bringing together seventeen essays by leading philosophers on the topic of metaphysical idealism The various essays explain attack or defend a variety of idealistic theories including not only Berkeleyan and Kantian idealisms but also those developed in traditions less familiar to analytic philosophers including Buddhism and Hassidic Judaism Although a number of the articles draw on historical sources all will be of interest to philosophers working in contemporary metaphysics This volume aims to spark a revival of serious philosophical interest in metaphysical idealism *Physicalism in Mathematics* A.D. Irvine, 2012-12-06 This collection of papers has its origin in a conference held at the University of Toronto in June of 1988 The theme of the conference was Physicalism in Mathematics Recent Work in the Philosophy of Mathematics At the conference papers were read by Geoffrey Hellman Minnesota Yvon Gauthier Montreal Michael Hallett McGill Hartry Field USC Bob Hale Lancaster St Andrews Alasdair Urquhart Toronto and Penelope Maddy Irvine This volume supplements updated versions of six of those papers with contributions by Jim Brown Toronto John Bigelow La Trobe John Burgess Princeton Chandler Davis Toronto David Papineau Cambridge Michael Resnik North Carolina at Chapel Hill Peter Simons Salzburg and Crispin Wright St Andrews Michigan Together they provide a vivid expansive snapshot of the exciting work which is currently being carried out in philosophy of mathematics Generous financial

support for the original conference was provided by the Social Sciences Humanities Research Council of Canada the British Council and the Department of Philosophy together with the Office of Internal Relations at the University of Toronto Additional support for the production of this volume was gratefully received from the Social Sciences Humanities Research Council of Canada

Logic Without Borders Åsa Hirvonen, Juha Kontinen, Roman Kossak, Andrés Villaveces, 2015-03-10 In recent years mathematical logic has developed in many directions the initial unity of its subject matter giving way to a myriad of seemingly unrelated areas The articles collected here which range from historical scholarship to recent research in geometric model theory squarely address this development These articles also connect to the diverse work of Van Norden whose ecumenical approach to logic reflects the unity of the discipline

The Broadview Introduction to Philosophy Volume I: Knowledge and Reality Andrew Bailey, 2019-06-18 This volume of The Broadview Introduction to Philosophy offers a thoughtful selection of readings in epistemology metaphysics and the philosophy of religion Substantial selections from important historical texts are provided including the entirety of Descartes's Meditations as are a number of contemporary readings on each topic Unlike other introductory anthologies the Broadview offers considerable apparatus to assist the student reader in understanding the texts without simply summarizing them Each selection includes an introduction discussing the context and structure of the primary reading as well as thorough annotations designed to clarify unfamiliar terms references and argument forms

Ontology, Causality, and Mind John Bacon, Keith Campbell, Lloyd Reinhardt, 1993-03-26 This collection of essays all especially written for this volume explore the many facets of Armstrong's work concentrating on his interests

Arts & Humanities Citation Index, 1991 A multidisciplinary index covering the journal literature of the arts and humanities It fully covers 1 144 of the world's leading arts and humanities journals and it indexes individually selected relevant items from over 6 800 major science and social science journals

Probabilities, Laws, and Structures Dennis Dieks, Wenceslao J. Gonzalez, Stephan Hartmann, Michael Stöltzner, Marcel Weber, 2012-02-02 This volume the third in this Springer series contains selected papers from the four workshops organized by the ESF Research Networking Programme The Philosophy of Science in a European Perspective PSE in 2010 Pluralism in the Foundations of Statistics Points of Contact between the Philosophy of Physics and the Philosophy of Biology The Debate on Mathematical Modeling in the Social Sciences Historical Debates about Logic Probability and Statistics The volume is accordingly divided in four sections each of them containing papers coming from the workshop focussing on one of these themes While the programme's core topic for the year 2010 was probability and statistics the organizers of the workshops embraced the opportunity of building bridges to more or less closely connected issues in general philosophy of science philosophy of physics and philosophy of the special sciences However papers that analyze the concept of probability for various philosophical purposes are clearly a major theme in this volume as it was in the previous volumes of the same series This reflects the impressive productivity of probabilistic approaches in the philosophy of science which form an important

part of what has become known as formal epistemology although of course there are non probabilistic approaches in formal epistemology as well It is probably fair to say that Europe has been particularly strong in this area of philosophy in recent years

The Metaphysics and Mathematics of Arbitrary Objects Leon Horsten, 2019-06-13 Building on the seminal work of Kit Fine in the 1980s Leon Horsten here develops a new theory of arbitrary entities He connects this theory to issues and debates in metaphysics logic and contemporary philosophy of mathematics investigating the relation between specific and arbitrary objects and between specific and arbitrary systems of objects His book shows how this innovative theory is highly applicable to problems in the philosophy of arithmetic and explores in particular how arbitrary objects can engage with the nineteenth century concept of variable mathematical quantities how they are relevant for debates around mathematical structuralism and how they can help our understanding of the concept of random variables in statistics This fully worked through theory will open up new avenues within philosophy of mathematics bringing in the work of other philosophers such as Saul Kripke and providing new insights into the development of the foundations of mathematics from the eighteenth century to the present day

A Brief History of Analytic Philosophy Stephen P. Schwartz, 2012-03-28 A Brief History of Analytic Philosophy From Russell to Rawls presents a comprehensive overview of the historical development of all major aspects of analytic philosophy the dominant Anglo American philosophical tradition in the twentieth century Features coverage of all the major subject areas and figures in analytic philosophy including Wittgenstein Bertrand Russell G E Moore Gottlob Frege Carnap Quine Davidson Kripke Putnam and many others Contains explanatory background material to help make clear technical philosophical concepts Includes listings of suggested further readings Written in a clear direct style that presupposes little previous knowledge of philosophy

Studies in Metaphysics Peter A. French, Theodore Edward Uehling, Howard K. Wettstein, 1979 Studies in Metaphysics was first published in 1979 Minnesota Archive Editions uses digital technology to make long unavailable books once again accessible and are published unaltered from the original University of Minnesota Press editions

Logic and Philosophy in the Lvov—Warsaw School Jan Wolenski, 2012-12-06 The Lvov Warsaw School was active in all spheres of philosophy Its members worked in the border area between philosophy and disciplines such as psychology linguistics and literary theory But its most important achievements were without doubt in logic and philosophical analysis based on logic The present book is concerned with fields to which the Lvov Warsaw School made its most important and famous contributions Data on the School as a whole are included only in the first and last part of the book This work is based on my monograph 1985 which appeared in Polish But it is not merely a translation because some fragments of the Polish version have been omitted e g the chapter on ethics and some have been revised Many persons helped me in my work on the book in Polish as well as on the present edition I must first mention the late Izydora Dąmbska to whom this book is dedicated On various detailed issues I have availed myself of advice and information given to me by Stefan Amsterdamski Zdzisław Augustynek Kazimierz Czarnota Henryk Hił Bolesław Iwanus Jacek Jadacki Jacek Kabziński Stanisław

Kiczuk Tomasz Komendzinski Janina Kotarbinska Czeslaw Lejewski Jerzy Perzanowski Marian Przet cki the late Jerzy Slupecki Klemens Szaniawski Stefan Zamecki Zbigniew Zwinogrodzki i Jan Zygmunt I am indebted to Jaakko Hintikka for suggesting that my book be trans lated into English and published by Reidel Olgierd Wojtasiewicz helped me to prepare the English text *Proof and Other Dilemmas* Bonnie Gold,Roger A. Simons,2008 During the first 75 years of the twentieth century almost all work in the philosophy of mathematics concerned foundational questions In the last quarter of the century philosophers of mathematics began to return to basic questions concerning the philosophy of mathematics such as what is the nature of mathematical knowledge and of mathematical objects and how is mathematics related to science Two new schools of philosophy of mathematics social constructivism and structuralism were added to the four traditional views formalism intuitionism logicism and platonism The advent of the computer led to proofs and the development of mathematics assisted by computer and to questions of the role of the computer in mathematics This book of 16 essays all written specifically for this volume is the first to explore this range of new developments in a language accessible to mathematicians Approximately half the essays were written by mathematicians and consider questions that philosophers are not yet discussing The other half written by philosophers of mathematics summarize the discussion in that community during the last 35 years In each case a connection is made to issues relevant to the teach of mathematics **Critique of the Psycho-Physical Identity Theory** Eric P. Polten,2019-05-20 No detailed description available for Critique of the Psycho Physical Identity Theory **Arguing about the Mind** Brie Gertler,Lawrence A. Shapiro,2007 An accessible and engaging introductory reader that explores a broad range of topics and key arguments on the philosophy of mind **Midwest Studies in Philosophy** ,1976

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