Mathematical Intuitionism And Intersubjectivity

Carl J. Posy

Mathematical Intuitionism And Intersubjectivity:

[Mathematical Intuitionism and Intersubjectivity](#) Tomasz Placek,2013-03-09 In 1907 Luitzen Egbertus Jan Brouwer defended his doctoral dissertation on the foundations of mathematics and with this event the modem version of mathematical intuitionism came into being Brouwer attacked the main currents of the philosophy of mathematics the formalists and the Platonists In tum both these schools began viewing intuitionism as the most harmful party among all known philosophies of mathematics That was the origin of the now 90 year old debate over intuitionism As both sides have appealed in their arguments to philosophical propositions the discussions have attracted the attention of philosophers as well One might ask here what role a philosopher can play in controversies over mathematical intuitionism Can he reasonably enter into disputes among mathematicians I believe that these disputes call for intervention by a philo sopher The three best known arguments for intuitionism those of Brouwer Heyting and Dummett are based on ontological and epistemological claims or appeal to theses that properly belong to a theory of meaning Those lines of argument should be investigated in order to find what their assumptions are whether intuitionistic consequences really follow from those assumptions and finally whether the premises are sound and not absurd The intention of this book is thus to consider seriously the arguments of mathematicians even if philosophy was not their main field of interest There is little sense in disputing whether what mathematicians said about the objectivity and reality of mathematical facts belongs to philosophy or not *Handbook of the History and Philosophy of Mathematical Practice* Bharath Sriraman,2024-04-26 The purpose of this unique handbook is to examine the transformation of the philosophy of mathematics from its origins in the history of mathematical practice to the present It aims to synthesize what is known and what has unfolded so far as well as to explore directions in which the study of the philosophy of mathematics as evident in increasingly diverse mathematical practices is headed Each section offers insights into the origins debates methodologies and newer perspectives that characterize the discipline today Contributions are written by scholars from mathematics history and philosophy as well as other disciplines that have contributed to the richness of perspectives abundant in the study of philosophy today who describe various mathematical practices throughout different time periods and contrast them with the development of philosophy Editorial Advisory Board Andrew Aberdein Florida Institute ofTechnology USA Jody Azzouni Tufts University USA Ot vio Bueno University of Miami USA William Byers Concordia University Canada Carlo Cellucci Sapienza University of Rome Italy Chandler Davis University of Toronto Canada 1926 2022 Paul Ernest University of Exeter UK Michele Friend George Washington University USA Reuben Hersh University of New Mexico USA 1927 2020 Kyeong Hwa Lee Seoul National University South Korea Yuri Manin Max Planck Institute for Mathematics Germany 1937 2023 Athanase Papadopoulos University of Strasbourg France Ulf Persson Chalmers University of Technology Sweden John Stillwell University of San Francisco USA David Tall University of Warwick UK 1941 2024 This book with its exciting depth and breadth illuminates us about the history practice and the very language of our subject about

the role of abstraction ofproof and manners of proof about the interplay of fundamental intuitions about algebraic thought in contrast to geometric thought The richness of mathematics and the philosophy encompassing it is splendidly exhibited over the wide range of time these volumes cover from deep platonic and neoplatonic influences to the most current experimental approaches Enriched as well with vivid biographies and brilliant personal essays written by and about people who play an important role in our tradition this extraordinary collection of essays is fittingly dedicated to the memory of Chandler Davis Reuben Hersh and Yuri Manin Barry Mazur Gerhard Gade University Professor Harvard University This encyclopedic Handbook will be a treat for all those interested in the history and philosophy of mathematics Whether one is interested in individuals from Pythagoras through Newton and Leibniz to Grothendieck fields geometry algebra number theory logic probability analysis viewpoints from Platonism to Intuitionism or methods proof experiment computer assistance the reader will find a multitude of chapters that inform and fascinate John Stillwell Emeritus Professor of Mathematics University of San Francisco Recipient of the 2005 Chauvenet Prize Dedicating a volume to the memory of three mathematicians Chandler Davis Reuben Hersh and Yuri Manin who went out of their way to show to a broader audience that mathematics is more than what they might think is an excellent initiative Gathering authors coming from many different backgrounds but who are very strict about the essays they write was successfully achieved by the editor in chief The result a great source of potential inspiration Jean Pierre Bourguignon Nicolaas Kuiper Honorary Professor at the Institut des Hautes tudes Scientifiques

One Hundred Years of Intuitionism (1907-2007) Mark van Atten,Pascal Boldini,Michel Bourdeau,Gerhard Heinzmann,2008-11-09 Intuitionism is one of the main foundations for mathematics proposed in the twentieth century and its views on logic have also notably become important with the development of theoretical computer science This book reviews and completes the historical account of intuitionism It also presents recent philosophical work on intuitionism and gives examples of new technical advances and applications It brings together 21 contributions from today s leading authors on intuitionism   Essays on Gödel's Reception of Leibniz, Husserl, and Brouwer Mark van Atten,2014-11-21 This volume tackles G del s two stage project of first using Husserl s transcendental phenomenology to reconstruct and develop Leibniz monadology and then founding classical mathematics on the metaphysics thus obtained The author analyses the historical and systematic aspects of that project and then evaluates it with an emphasis on the second stage The book is organised around G del s use of Leibniz Husserl and Brouwer Far from considering past philosophers irrelevant to actual systematic concerns G del embraced the use of historical authors to frame his own philosophical perspective The philosophies of Leibniz and Husserl define his project while Brouwer s intuitionism is its principal foil the close affinities between phenomenology and intuitionism set the bar for G del s attempt to go far beyond intuitionism The four central essays are Monads and sets On the philosophical development of Kurt G del G del and intuitionism and Construction and constitution in mathematics The first analyses and criticises G del s attempt to justify by an argument from analogy with the monadology the reflection

principle in set theory It also provides further support for G del s idea that the monadology needs to be reconstructed phenomenologically by showing that the unsupplemented monadology is not able to found mathematics directly The second studies G del s reading of Husserl its relation to Leibniz monadology and its influence on his publishe d writings The third discusses how on various occasions Brouwer s intuitionism actually inspired G del s work in particular the Dialectica Interpretation The fourth addresses the question whether classical mathematics admits of the phenomenological foundation that G del envisaged and concludes that it does not The remaining essays provide further context The essays collected here were written and published over the last decade Notes have been added to record further thoughts changes of mind connections between the essays and updates of references **Essays on Husserl's Logic and Philosophy of Mathematics** Stefania Centrone,2017-09-07 Essays on Husserl s Logic and Philosophy of Mathematics sets out to fill up a lacuna in the present research on Husserl by presenting a precise account of Husserl s work in the field of logic of the philosophy of logic and of the philosophy of mathematics The aim is to provide an in depth reconstruction and analysis of the discussion between Husserl and his most important interlocutors and to clarify pivotal ideas of Husserl s by considering their reception and elaboration by some of his disciples and followers such as Oskar Becker and Jacob Klein as well as their influence on some of the most significant logicians and mathematicians of the past century such as Luitzen E J Brouwer Rudolf Carnap Kurt G del and Hermann Weyl Most of the papers consider Husserl and another scholar e g Leibniz Kant Bolzano Brentano Cantor Frege and trace out and contextualize lines of influence points of contact and points of disagreement Each essay is written by an expert of the field and the volume includes contributions both from the analytical tradition and from the phenomenological one *Brouwer meets Husserl* Mark van Atten,2006-11-08 Can the straight line be analysed mathematically such that it does not fall apart into a set of discrete points as is usually done but through which its fundamental continuity is lost And are there objects of pure mathematics that can change through time Mathematician and philosopher L E J Brouwer argued that the two questions are closely related and that the answer to both is yes To this end he introduced a new kind of object into mathematics the choice sequence But other mathematicians and philosophers have been voicing objections to choice sequences from the start This book aims to provide a sound philosophical basis for Brouwer s choice sequences by subjecting them to a phenomenological critique in the style of the later Husserl **The New Yearbook for Phenomenology and Phenomenological Philosophy** Burt Hopkins,John Drummond,2015-03-24 The New Yearbook for Phenomenology and Phenomenological Philosophy provides an annual international forum for phenomenological research in the spirit of Husserl s groundbreaking work and the extension of this work by such figures as Scheler Heidegger Sartre Levinas Merleau Ponty and Gadamer **The Bulletin of Symbolic Logic** ,2006 Mathematical Reviews ,2001 **Encyclopedia of Philosophy** Donald M. Borchert,2006 This volume covering entries from Abbagnano Nicola to Byzantine philosophy presents articles on Eastern and Western philosophies medical and scientific ethics the Holocaust

terrorism censorship biographical entries and much more **Kurt Gödel** Solomon Feferman,Charles Parsons,Stephen G. Simpson,2010-04-19 Kurt G del 1906 1978 did groundbreaking work that transformed logic and other important aspects of our understanding of mathematics especially his proof of the incompleteness of formalized arithmetic This book on different aspects of his work and on subjects in which his ideas have contemporary resonance includes papers from a May 2006 symposium celebrating G del s centennial as well as papers from a 2004 symposium Proof theory set theory philosophy of mathematics and the editing of G del s writings are among the topics covered Several chapters discuss his intellectual development and his relation to predecessors and contemporaries such as Hilbert Carnap and Herbrand Others consider his views on justification in set theory in light of more recent work and contemporary echoes of his incompleteness theorems and the concept of constructible sets _Forthcoming Books_ Rose Arny,1999 *The Philosopher's Index* ,2009 Vols for 1969 include a section of abstracts **On Brouwer** Markus Sebastiaan Paul Rogier van Atten,2004 This book offers a concise yet comprehensive introduction to this philosopher s most important ideas **American Book Publishing Record** ,2000 **Encyclopedia Americana: Indian to Jeffers** ,2005 *Philosophical Dictionary* Mario Bunge,2003 Most entries are brief and nontechnical in nature highlighting useful philosophical terms rather than trendy ones Placing his emphasis on living philosophy Bunge deliberately excludes many of the archaic terms and philosophical curios of other dictionaries **Mathematical Intuitionism** Carl J. Posy,2020-11-12 L E J Brouwer the founder of mathematical intuitionism believed that mathematics and its objects must be humanly graspable He initiated a program rebuilding modern mathematics according to that principle This book introduces the reader to the mathematical core of intuitionism from elementary number theory through to Brouwer s uniform continuity theorem and to the two central topics of formalized intuitionism formal intuitionistic logic and formal systems for intuitionistic analysis Building on that the book proposes a systematic philosophical foundation for intuitionism that weaves together doctrines about human grasp mathematical objects and mathematical truth _The Encyclopedia Americana: Indian-Jeffers_ ,2001 *The Encyclopedia Americana* ,2002

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