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REUNITING THE ANTIPODES – CONSTRUCTIVE AND NONSTANDARD VIEWS OF THE CONTINUUM

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Reuniting The Antipodes

**Peter Schuster, Ulrich Berger, Horst
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Reuniting The Antipodes:

Reuniting the Antipodes - Constructive and Nonstandard Views of the Continuum Peter Schuster,Ulrich Berger,Horst Osswald,2013-03-14 At first glance Robinson s original form of nonstandard analysis appears nonconstructive in essence because it makes a rather unrestricted use of classical logic and set theory and in particular of the axiom of choice Recent developments however have given rise to the hope that the distance between constructive and nonstandard mathematics is actually much smaller than it appears So the time was ripe for the first meeting dedicated simultaneously to both ways of doing mathematics and to the current and future reunion of these seeming opposites Consisting of peer reviewed research and survey articles written on the occasion of such an event this volume offers views of the continuum from various standpoints Including historical and philosophical issues the topics of the contributions range from the foundations the practice and the applications of constructive and nonstandard mathematics to the interplay of these areas and the development of a unified theory Reuniting the Antipodes - Constructive and Nonstandard Views of the Continuum

Evolving Computability Arnold Beckmann,Victor Mitran,Mariya Soskova,2015-06-19 This book constitutes the refereed proceedings of the 11th Conference on Computability in Europe CiE 2015 held in Bucharest Romania in June July 2015 The 26 revised papers presented were carefully reviewed and selected from 64 submissions and included together with 10 invited papers in this proceedings The conference CiE 2015 has six special sessions two sessions Representing Streams and Reverse Mathematics were introduced for the first time in the conference series In addition to this new developments in areas frequently covered in the CiE conference series were addressed in the further special sessions on Automata Logic and Infinite Games Bio inspired Computation Classical Computability Theory as well as History and Philosophy of Computing *Concepts of Proof in Mathematics, Philosophy, and Computer Science* Dieter Probst,Peter Schuster,2016-07-25 A proof is a successful demonstration that a conclusion necessarily follows by logical reasoning from axioms which are considered evident for the given context and agreed upon by the community It is this concept that sets mathematics apart from other disciplines and distinguishes it as the prototype of a deductive science Proofs thus are utterly relevant for research teaching and communication in mathematics and of particular interest for the philosophy of mathematics In computer science moreover proofs have proved to be a rich source for already certified algorithms This book provides the reader with a collection of articles covering relevant current research topics circled around the concept proof It tries to give due consideration to the depth and breadth of the subject by discussing its philosophical and methodological aspects addressing foundational issues induced by Hilbert s Programme and the benefits of the arising formal notions of proof without neglecting reasoning in natural language proofs and applications in computer science such as program extraction **The Continuous, the Discrete and the Infinitesimal in Philosophy and Mathematics** John L. Bell,2019-09-09 This book explores and articulates the concepts of the continuous and the infinitesimal

from two points of view the philosophical and the mathematical The first section covers the history of these ideas in philosophy Chapter one entitled The continuous and the discrete in Ancient Greece the Orient and the European Middle Ages reviews the work of Plato Aristotle Epicurus and other Ancient Greeks the elements of early Chinese Indian and Islamic thought and early Europeans including Henry of Harclay Nicholas of Autrecourt Duns Scotus William of Ockham Thomas Bradwardine and Nicolas Oreme The second chapter of the book covers European thinkers of the sixteenth and seventeenth centuries Galileo Newton Leibniz Descartes Arnauld Fermat and more Chapter three The age of continuity discusses eighteenth century mathematicians including Euler and Carnot and philosophers among them Hume Kant and Hegel Examining the nineteenth and early twentieth centuries the fourth chapter describes the reduction of the continuous to the discrete citing the contributions of Bolzano Cauchy and Reimann Part one of the book concludes with a chapter on divergent conceptions of the continuum with the work of nineteenth and early twentieth century philosophers and mathematicians including Veronese Poincar Brouwer and Weyl Part two of this book covers contemporary mathematics discussing topology and manifolds categories and functors Grothendieck topologies sheaves and elementary topoi Among the theories presented in detail are non standard analysis constructive and intuitionist analysis and smooth infinitesimal analysis synthetic differential geometry No other book so thoroughly covers the history and development of the concepts of the continuous and the infinitesimal

Handbook of Constructive Mathematics Douglas Bridges,Hajime Ishihara,Michael Rathjen,Helmut Schwichtenberg,2023-05-11 Constructive mathematics mathematics in which there exists always means we can construct is enjoying a renaissance fifty years on from Bishop s groundbreaking account of constructive analysis constructive mathematics has spread out to touch almost all areas of mathematics and to have profound influence in theoretical computer science This handbook gives the most complete overview of modern constructive mathematics with contributions from leading specialists surveying the subject s myriad aspects Major themes include constructive algebra and geometry constructive analysis constructive topology constructive logic and foundations of mathematics and computational aspects of constructive mathematics A series of introductory chapters provides graduate students and other newcomers to the subject with foundations for the surveys that follow Edited by four of the most eminent experts in the field this is an indispensable reference for constructive mathematicians and a fascinating vista of modern constructivism for the increasing number of researchers interested in constructive approaches

Fundamentals Of General Equilibrium Analysis Takashi Suzuki,2020-09-03 The aim of this book is to incorporate Marshallian ideas such as external increasing returns and monopolistic competitions into the general equilibrium framework of Walrasian tradition New chapters and sections have been added to this revised and expanded edition of General Equilibrium Analysis of Production and Increasing Returns World Scientific 2009 The new material includes a presentation of equilibrium existence and core equivalence theorems for an infinite horizon economy with a measure space of consumers These results are currently the focus of extensive studies by

mathematical theorists and are obtained by an application of an advanced mathematical concept called saturated super atomless measure space The second major change is the inclusion of a simple toy model of a liberal society which implements the difference principle proposed by J Rawls as a principle of distributive justice This new section opens up a possibility to connect theoretical economics and political philosophy Thirdly the author presents the marginal cost pricing equilibrium and discusses welfare properties of the external increasing returns which also belong to Marshall Pigou tradition of the Cambridge school Finally a new mathematical appendix treats basics of singular homology theory Although the fixed point theorem is originally a theorem of algebraic topology most economic students know its proof only in the context of the differentiable manifold theory presented by J Milnor Considering the significance of the fixed point theorem and its playing a key role in general equilibrium theory the purpose of this new appendix is to provide readers with the idea of a proof of Brower's fixed point theorem from the right place This volume will be helpful for graduate students and researchers of mathematical economics game theory and microeconomics

Discrete Mathematics and Theoretical Computer Science Cristian S. Calude, Michael J. Dinneen, Vincent Vajnovszki, 2007-03-05 The refereed proceedings of the 4th International Conference on Discrete Mathematics and Theoretical Computer Science DMTCS 2003 held in Dijon France in July 2003 The 18 revised full papers presented together with 5 invited papers were carefully reviewed and selected from 35 submissions A broad variety of topics in discrete mathematics and the theory of computing is addressed including information theory coding algorithms complexity automata computational mathematics combinatorial computations graph computations algorithmic geometry relational methods game theoretic methods combinatorial optimization and finite state systems

Recent Development in Stochastic Dynamics and Stochastic Analysis Jinqiao Duan, Shunlong Luo, Caishi Wang, 2010 Stochastic dynamical systems and stochastic analysis are of great interests not only to mathematicians but also scientists in other areas Stochastic dynamical systems tools for modeling and simulation are highly demanded in investigating complex phenomena in for example environmental and geophysical sciences materials science life sciences physical and chemical sciences finance and economics The volume reflects an essentially timely and interesting subject and offers reviews on the recent and new developments in stochastic dynamics and stochastic analysis and also some possible future research directions Presenting a dozen chapters of survey papers and research by leading experts in the subject the volume is written with a wide audience in mind ranging from graduate students junior researchers to professionals of other specializations who are interested in the subject

Logicism, Intuitionism, and Formalism Sten Lindström, Erik Palmgren, Krister Segerberg, Viggo Stoltenberg-Hansen, 2008-11-25 This anthology reviews the programmes in the foundations of mathematics from the classical period and assesses their possible relevance for contemporary philosophy of mathematics A special section is concerned with constructive mathematics

Computational Prospects of Infinity: Presented talks Chi-Tat Chong, 2008 This volume is a collection of written versions of the talks given at the Workshop on

Computational Prospects of Infinity held at the Institute for Mathematical Sciences from 18 June to 15 August 2005 It consists of contributions from many of the leading experts in recursion theory computability theory and set theory Topics covered include the structure theory of various notions of degrees of unsolvability algorithmic randomness reverse mathematics forcing large cardinals and inner model theory and many others

From Sets and Types to Topology and Analysis Laura Crosilla, Peter Schuster, 2005-10-06 This edited collection bridges the foundations and practice of constructive mathematics and focusses on the contrast between the theoretical developments which have been most useful for computer science eg constructive set and type theories and more specific efforts on constructive analysis algebra and topology Aimed at academic logicians mathematicians philosophers and computer scientists Including with contributions from leading researchers it is up to date highly topical and broad in scope This is the latest volume in the Oxford Logic Guides which also includes 41 J M Dunn and G Hardegree Algebraic Methods in Philosophical Logic 42 H Rott Change Choice and Inference A study of belief revision and nonmonotonic reasoning 43 Johnstone Sketches of an Elephant A topos theory compendium volume 1 44 Johnstone Sketches of an Elephant A topos theory compendium volume 2 45 David J Pym and Eike Ritter Reductive Logic and Proof Search Proof theory semantics and control 46 D M Gabbay and L Maksimova Interpolation and Definability Modal and Intuitionistic Logics 47 John L Bell Set Theory Boolean valued models and independence proofs third edition

Attitudes and Changing Contexts Robert van Rooij, 2006-03-30 In this book the author defends a unified externalists account of propositional attitudes and reference and formalizes this view within possible world semantics He establishes a link between philosophical analyses of intentionality and reference and formal semantic theories of discourse representation and context change Stalnakerian diagonalization plays an important role here Anaphora are treated as referential expressions while presupposition is seen as a propositional attitude The relation between belief change and the semantic analyses of conditional sentences and evidential knowledge and deontic desire propositional attitudes is discussed extensively

Nonstandard Methods and Applications in Mathematics Nigel J. Cutland, Mauro Di Nasso, David A. Ross, 2017-03-30 Since their inception the Perspectives in Logic and Lecture Notes in Logic series have published seminal works by leading logicians Many of the original books in the series have been unavailable for years but they are now in print once again This volume the twenty fifth publication in the Lecture Notes in Logic series grew from a conference on Nonstandard Methods and Applications in Mathematics held in Pisa Italy from 12-16 June 2002 It contains ten peer reviewed papers that aim to provide something more timely than a textbook but less ephemeral than a conventional proceedings Nonstandard analysis is one of the great achievements of modern applied mathematical logic These articles consider the foundations of the subject as well as its applications to pure and applied mathematics and mathematics education

Exogenous Factors in Colonic Carcinogenesis W. Scheppach, M. Scheurlen, 2003-01-31 This book is the proceedings of Falk Symposium 128 held in Würzburg Germany on May 2-3 2002 and dedicated to the important issue of

colonic carcinogenesis and its underlying genetic and environmental factors Colorectal cancer is one of the leading causes of cancer related death in industrialized countries It has been recognized to be the consequence of a dynamic process leading from hyperproliferative epithelium through different classes of adenomas to invasive carcinoma This adenoma carcinoma sequence has been characterized on a molecular basis Modern molecular biology has also helped to clarify the clustering of colorectal cancer within families a phenomenon that has been known to clinicians for a long time Thus the pathogenesis of the two distinct familial colon cancer syndromes FAP familial adenomatous polyposis and HNPCC hereditary non polyposis colorectal cancer is increasingly being understood Thereby an identification of affected people has become possible before the disease has manifested There is also convincing evidence that the pathogenesis of sporadic colonic cancer is modulated by environmental mainly nutritional factors Carcinogens seem to be far less important than the components of the normal human diet It is likely that the interplay between protective and noxious dietary compounds determines the progression of the adenoma carcinoma sequence Additionally a broad spectrum of drugs has been shown to affect colonic tumorigenesis which provides the rationale for chemoprevention strategies These issues set the scene for discussions on how genetic and environmental factors may interact in the pathogenesis of colonic cancer contributing fresh ideas to the prevention of this most prevalent malignancy in the industrialized world

Quantum and Stochastic Mathematical Physics Astrid Hilbert, Elisa Mastrogiacomio, Sonia Mazzocchi, Barbara Rüdiger, Stefania Ugolini, 2023-04-02 Sergio Albeverio gave important contributions to many fields ranging from Physics to Mathematics while creating new research areas from their interplay Some of them are presented in this Volume that grew out of the Random Transformations and Invariance in Stochastic Dynamics Workshop held in Verona in 2019 To understand the theory of thermo and fluid dynamics statistical mechanics quantum mechanics and quantum field theory Albeverio and his collaborators developed stochastic theories having strong interplays with operator theory and functional analysis His contribution to the theory of non Gaussian SPDEs the related theory of pseudo differential operators and ergodic theory had several impacts to solve problems related among other topics to thermo and fluid dynamics His scientific works in the theory of interacting particles and its extension to configuration spaces lead e g to the solution of open problems in statistical mechanics and quantum field theory Together with Raphael Hoegh Krohn he introduced the theory of infinite dimensional Dirichlet forms which nowadays is used in many different contexts and new methods in the theory of Feynman path integration He did not fear to further develop different methods in Mathematics like e g the theory of non standard analysis and p adic numbers

(Over)Interpreting Wittgenstein A. Biletzki, 2012-09-14 Over Interpreting Wittgenstein will be read by philosophers investigating Wittgenstein and by scholars interpreters students and specialists in both analytic and continental philosophy It will intrigue readers interested in issues of interpretation and cultural studies This book tells the story as yet untold of Wittgenstein interpretation during the past eighty years It provides different interpretations chronologies developments and controversies It aims to discover the socio cultural rather than psychological

motives and motivations behind the philosophical community's project of interpreting Wittgenstein As a cultural history of ideas it traces the parallelism between Wittgenstein interpretation and the move from metaphysics to language to postmodernism effected in the twentieth century One Hundred Years of Russell's Paradox Godehard Link, 2008-08-22 The papers collected in this volume represent the main body of research arising from the International Munich Centenary Conference in 2001 which commemorated the discovery of the famous Russell Paradox a hundred years ago The 31 contributions and the introductory essay by the editor were with two exceptions all originally written for the volume The volume serves a twofold purpose historical and systematic One focus is on Bertrand Russell's logic and logical philosophy taking into account the rich sources of the Russell Archives many of which have become available only recently The second equally important aim is to present original research in the broad range of foundational studies that draws on both current conceptions and recent technical advances in the above mentioned fields The volume contributes therefore to the well established body of mathematical philosophy initiated to a large extent by Russell's work **Philosophical Lectures on Probability** Bruno de Finetti, 2008-05-01 Bruno de Finetti 1906 1985 is the founder of the subjective interpretation of probability together with the British philosopher Frank Plumpton Ramsey His related notion of exchangeability revolutionized the statistical methodology This book based on a course held in 1979 explains in a language accessible also to non mathematicians the fundamental tenets and implications of subjectivism according to which the probability of any well specified fact F refers to the degree of belief actually held by someone on the ground of her whole knowledge on the truth of the assertion that F obtains *Visualization, Explanation and Reasoning Styles in Mathematics* P. Mancosu, Klaus Froyen Jørgensen, S.A. Pedersen, 2006-03-30 In the 20th century philosophy of mathematics has to a great extent been dominated by views developed during the so called foundational crisis in the beginning of that century These views have primarily focused on questions pertaining to the logical structure of mathematics and questions regarding the justification and consistency of mathematics Paradigmatic in this respect is Hilbert's program which inherits from Frege and Russell the project to formalize all areas of ordinary mathematics and then adds the requirement of a proof by epistemically privileged means nitistic reasoning of the consistency of such formalized theories While interest in modified versions of the original foundational programs is still thriving in the second part of the twentieth century several philosophers and historians of mathematics have questioned whether such foundational programs could exhaust the realm of important philosophical problems to be raised about the nature of mathematics Some have done so in open confrontation and hostility to the logically based analysis of mathematics which characterized the classical foundational programs while others and many of the contributors to this book belong to this tradition have only called for an extension of the range of questions and problems that should be raised in connection with an understanding of mathematics The focus has turned thus to a consideration of what mathematicians are actually doing when they produce mathematics Questions concerning concept formation understanding heuristics changes

instyle of reasoning the role of analogies and diagrams etc

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