FINE STRUCTURE AND ITERATION TREES

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Fine Structure And Iteration Trees Lecture Notes In Logic Vol 3

Sophia Arbeiter,Juliette Kennedy

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Ordinal Definability and Recursion Theory: Volume 3 Alexander S. Kechris,Benedikt Löwe,John R. Steel,2016-01-11 The proceedings of the Los Angeles Caltech UCLA Cabal Seminar were originally published in the 1970s and 1980s Ordinal Definability and Recursion Theory is the third in a series of four books collecting the seminal papers from the original volumes together with extensive unpublished material new papers on related topics and discussion of research developments since the publication of the original volumes Focusing on the subjects of HOD and its Local Versions Part V and Recursion Theory Part VI each of the two sections is preceded by an introductory survey putting the papers into present context These four volumes will be a necessary part of the book collection of every set theorist *Logic Colloquium '02* Zoe Chatzidakis,Peter Koepke,Wolfram Pohlers,2006-07-13 Logic Colloquium 02 includes articles from some of the world s preeminent logicians The topics span all areas of mathematical logic but with an emphasis on Computability Theory and Proof Theory This book will be of interest to graduate students and researchers in the field of mathematical logic

Foundations of Mathematics Andrés Eduardo Caicedo,James Cummings,Peter Koellner,Paul B. Larson,2017-05-12 This volume contains the proceedings of the Logic at Harvard conference in honor of W Hugh Woodin s 60th birthday held March 27 29 2015 at Harvard University It presents a collection of papers related to the work of Woodin who has been one of the leading figures in set theory since the early 1980s The topics cover many of the areas central to Woodin s work including large cardinals determinacy descriptive set theory and the continuum problem as well as connections between set theory and Banach spaces recursion theory and philosophy each reflecting a period of Woodin s career Other topics covered are forcing axioms inner model theory the partition calculus and the theory of ultrafilters This volume should make a suitable introduction to Woodin s work and the concerns which motivate it The papers should be of interest to graduate students and researchers in both mathematics and philosophy of mathematics particularly in set theory foundations and related areas

Large Cardinals, Determinacy and Other Topics Alexander S. Kechris,Benedikt Löwe,John R. Steel,2020-11-05 The final volume in a series of four books presenting the seminal papers from the Caltech UCLA Cabal Seminar **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 **Set Theory** Ralf Schindler,2014-05-22 This textbook gives an introduction to axiomatic set theory and examines the prominent questions that are relevant in current research in a manner that is accessible to students Its main theme is the interplay of large cardinals inner models forcing and descriptive set theory The following topics are covered Forcing and constructability The Solovay Shelah Theorem i e the equiconsistency of every set of reals is Lebesgue measurable with one inaccessible cardinal Fine structure theory and a modern approach to sharps Jensen s Covering Lemma The equivalence of analytic determinacy with sharps The theory of extenders and iteration trees A proof of projective determinacy from Woodin cardinals Set Theory requires only a basic knowledge of mathematical logic and will be suitable for advanced students and researchers **Hod Mice and the Mouse Set Conjecture** Grigor Sargsyan,2015-06-26

The author develops the theory of Hod mice below ADR is regular He uses this theory to show that HOD of the minimal model of ADR is regular satisfies GCH Moreover he shows that the Mouse Set Conjecture is true in the minimal model of ADR is regular   The Ultrapower Axiom Gabriel Goldberg,2022-04-04 The book is about strong axioms of infi nity in set theory also known as large cardinal axioms and the ongoing search for natural models of these axioms Assuming the Ultrapower Axiom a combinatorial principle conjectured to hold in all such natural models we solve various classical problems in set theory for example the Generalized Continuum Hypothesis and uncover a theory of large cardinals that is much clearer than the one that can be developed using only the standard axioms   **Logic and Its Applications** Mohua Banerjee,A. V. Sreejith,2023-02-22 Edited in collaboration with FoLLI this book constitutes the refereed proceedings of the 10th Indian Conference on Logic and Its Applications ICLA 2023 which was held in Indore India in March 2023 Besides 6 invited papers presented in this volume there are 9 contributed full papers which were carefully reviewed and selected from 18 submissions The volume covers a wide range of topics These topics are related to modal and temporal logics intuitionistic connexive and imperative logics systems for reasoning with vagueness and rough concepts topological quasi Boolean logic and quasi Boolean based rough set models and first order definability of path functions of graphs   Handbook of Set Theory Matthew Foreman,Akihiro Kanamori,2009-12-10 Numbers imitate space which is of such a di erent nature Blaise Pascal It is fair to date the study of the foundation of mathematics back to the ancient Greeks The urge to understand and systematize the mathematics of the time led Euclid to postulate axioms in an early attempt to put geometry on a rm footing With roots in the Elements the distinctive methodology of mathematics has become proof Inevitably two questions arise What are proofs and What assumptions are proofs based on The rst question traditionally an internal question of the eld of logic was also wrestled with in antiquity Aristotle gave his famous syllogistic s tems and the Stoics had a nascent propositional logic This study continued with ts and starts through Boethius the Arabs and the medieval logicians in Paris and London The early germs of logic emerged in the context of philosophy and theology The development of analytic geometry as exempli ed by Descartes ill tratedoneofthedi cultiesinherentinfoundingmathematics Itisclassically phrased as the question ofhow one reconciles the arithmetic with the geom ric Arenumbers onetypeofthingand geometricobjectsanother Whatare the relationships between these two types of objects How can they interact Discovery of new types of mathematical objects such as imaginary numbers and much later formal objects such as free groups and formal power series make the problem of nding a common playing eld for all of mathematics importunate Several pressures made foundational issues urgent in the 19th century   **Nine Mathematical Challenges: An Elucidation** A. Kechris,N. Makarov,D. Ramakrishnan,X. Zhu,2021-09-24 This volume stems from the Linde Hall Inaugural Math Symposium held from February 22 24 2019 at California Institute of Technology Pasadena California The content isolates and discusses nine mathematical problems or sets of problems in a deep way but starting from scratch Included among them are the well known problems of the classification of finite groups the Navier

Stokes equations the Birch and Swinnerton Dyer conjecture and the continuum hypothesis The other five problems also of substantial importance concern the Lieb Thirring inequalities the equidistribution problems in number theory surface bundles ramification in covers and curves and the gap and type problems in Fourier analysis The problems are explained succinctly with a discussion of what is known and an elucidation of the outstanding issues An attempt is made to appeal to a wide audience both in terms of the field of expertise and the level of the reader   *Trends in Set Theory* Samuel Coskey,Grigor Sargsyan,2020-06-18 This volume contains the proceedings of Simon Fest held in honor of Simon Thomas s 60th birthday from September 15 17 2017 at Rutgers University Piscataway New Jersey The topics covered showcase recent advances from a variety of main areas of set theory including descriptive set theory forcing and inner model theory in addition to several applications of set theory including ergodic theory combinatorics and model theory   Sets and Proofs S. Barry Cooper,John K. Truss,1999-06-17 First of two volumes providing a comprehensive guide to mathematical logic   **The Pythagorean World** Jane McDonnell,2016-11-17 This book explores precisely how mathematics allows us to model and predict the behaviour of physical systems to an amazing degree of accuracy One of the oldest explanations for this is that in some profound way the structure of the world is mathematical The ancient Pythagoreans stated that everything is number However while exploring the Pythagorean method this book chooses to add a second principle of the universe the mind This work defends the proposition that mind and mathematical structure are the grounds of reality   **The Philosophy of Penelope Maddy** Sophia Arbeiter,Juliette Kennedy,2024-10-15 This volume features more than 20 essays that explore the work of one of the most important contemporary philosophers of mathematics It will help readers to better appreciate this significant and prolific philosopher Within philosophy of mathematics Penelope Maddy initially advocated realism She then went on to advance naturalism Both of her positions became very influential in the field along with her other work in the philosophy of logic The contributors comment on and otherwise engage with Maddy s work They also weigh in on the state of set theory and its philosophy the philosophy and history of logic naturalism skepticism and the myriad other areas to which Maddy left her mark Overall coverage traces her influence on these various ideas over the years It will also help readers to better understand how philosophers working at the forefront of these areas see these concepts today These essays will be essential reading for the wide group of philosophers working in these different areas as well as graduate students studying philosophy of mathematics and logic and the other related issues to which Maddy has contributed The volume will also appeal to logicians and set theorists in general as well as to philosophers working in analytic philosophy more widely as well as to those working in the history of philosophy   **The Core Model Iterability Problem** John R. Steel,2017-03-02 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 Large cardinal hypotheses play a central role in modern set theory One important way to understand such hypotheses is to construct

concrete minimal universes or core models satisfying them Since G del s pioneering work on the universe of constructible sets several larger core models satisfying stronger hypotheses have been constructed and these have proved quite useful In this volume the eighth publication in the Lecture Notes in Logic series Steel extends this theory so that it can produce core models having Woodin cardinals a large cardinal hypothesis that is the focus of much current research The book is intended for advanced graduate students and researchers in set theory *Computational Prospects Of Infinity - Part I: Tutorials* Chi Tat Chong,Qi Feng,Theodore A Slaman,W Hugh Woodin,Yue Yang,2008-05-02 This volume presents the written versions of the tutorial lectures given at the Workshop on Computational Prospects of Infinity held from 18 June to 15 August 2005 at the Institute for Mathematical Sciences National University of Singapore It consists of articles by four of the leading experts in recursion theory computability theory and set theory The survey paper of Rod Downey provides a comprehensive introduction to algorithmic randomness one of the most active areas of current research in recursion theory Theodore A Slaman s article is the first printed account of the ground breaking work of Slaman Woodin and Slaman Shore on the definability of the Turing jump John Steel presents some results on the properties of derived models of mice and on the existence of mice with large derived models The study was motivated by some of the well known Holy Grails in inner model theory including the Mouse Set Conjecture In his presentation W Hugh Woodin gives an outline of an expanded version unpublished on suitable extender sequences a subject that was developed in the attempt to understand inner model theory for large cardinals beyond the level of superstrong cardinals The volume serves as a useful guide for graduate students and researchers in recursion theory and set theory to some of the most important and significant developments in these subjects in recent years **Ordinal Computability** Merlin Carl,2019-09-23 Ordinal Computability discusses models of computation obtained by generalizing classical models such as Turing machines or register machines to transfinite working time and space In particular recognizability randomness and applications to other areas of mathematics are covered The Bulletin of Symbolic Logic ,2007 Sets and Extensions in the Twentieth Century ,2012-01-24 Set theory is an autonomous and sophisticated field of mathematics that is extremely successful at analyzing mathematical propositions and gauging their consistency strength It is as a field of mathematics that both proceeds with its own internal questions and is capable of contextualizing over a broad range which makes set theory an intriguing and highly distinctive subject This handbook covers the rich history of scientific turning points in set theory providing fresh insights and points of view Written by leading researchers in the field both this volume and the Handbook as a whole are definitive reference tools for senior undergraduates graduate students and researchers in mathematics the history of philosophy and any discipline such as computer science cognitive psychology and artificial intelligence for whom the historical background of his or her work is a salient consideration Serves as a singular contribution to the intellectual history of the 20th century Contains the latest scholarly discoveries and interpretative insights

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