

# MODEL THEORY, ARITHMETIC & ALGEBRAIC GEOMETRY

JOEL TORRES DEL VALLE

## I. LANGUAGES AND STRUCTURES.

### 1.1. What is Model Theory?

Model Theory is the study of the relationship between theories and mathematical structures which satisfies them [11]. Model Theory introduces Mathematical Logic in the practice of Universal Algebra, so we can think it like

Model Theory = Universal Algebra + Mathematical Logic.

I started this pages with the same question Chang-Keisler started their celebrated book [3]: ‘What is Model Theory?’ They also summarize the answer to the equation above. In this pages I summarize the relationship between Model Theory, Arithmetic and Algebraic Geometry. The topics will be the basic ones in the area, so this is just an invitation, in the presentation of topics I mainly follow the philosophy of the references, my basic reference is [9]. The early pioneers in Model Theory were Leopold Löwenheim in 1915, in his work ‘Über Möglichkeiten im Relativkalkül’<sup>1</sup> there he proved that if a first order theory  $T$  that has an infinite model then has a countable model. Thoralf Skolem in 1920 proved a second version of Löwenheim result, in his work ‘Logisch-kombinatorische Untersuchungen über die Erfüllbarkeit oder Beweisbarkeit mathematischer Sätze nebst einem Theoreme über dichte Mengen’<sup>2</sup>.

Kurt Gödel in 1930 proved his Completeness and Compactness Theorems for countable languages in his Doctoral dissertation at the University of Vienna titled ‘Die Vollständigkeit der Axiome des logischen Funktionenkalküls’<sup>3</sup>. Alfred Tarski in 1931 proved a third version of Löwenheim result and Anatoly Maltsev in 1936 extended Gödel’s Theorems for non-countable languages and showed the existence of non-standard models of Arithmetic by Compactness, a proof which resulted easier than Skolem’s one that used Gödel’s Incompleteness Theorems (Gödel proved them in 1931 in his work ‘Über formal unentscheidbare Sätze der Principia Mathematica und verwandter systeme I’<sup>4</sup>); and Skolem proved the existence of non-standard models in 1934 in a work titled ‘Über die Nicht-charakterisierbarkeit der Zahlenreihe mittels endlich oder abzählbar unendlich vieler Aussagen mit ausschließlic

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<sup>1</sup>Date: April, 2019.

<sup>2</sup>Apperead in *Mathematische Annalen* 76: pp. 447–470.

<sup>3</sup>Apperead in *Widenskapsakademiet Skriffter, I. Matematik-naturvidenskabelig Klasse*, 4: 1–36.

<sup>4</sup>Apperead in *Monatshefte für Mathematik* 37: pp. 349–360.

<sup>5</sup>Apperead in *Monatshefte für Mathematik und Physik* 38: 173–198.

# Model Theory And Algebraic Geometry

**Lou van den Dries, Jochen  
Koenigsmann, H. Dugald  
Macpherson, Anand Pillay, Carlo  
Toffalori, Alex J. Wilkie**

## **Model Theory And Algebraic Geometry:**

**Model Theory and Algebraic Geometry** Elisabeth Bouscaren, 2009-03-14 This introduction to the recent exciting developments in the applications of model theory to algebraic geometry illustrated by E Hrushovski's model theoretic proof of the geometric Mordell Lang Conjecture starts from very basic background and works up to the detailed exposition of Hrushovski's proof explaining the necessary tools and results from stability theory on the way The first chapter is an informal introduction to model theory itself making the book accessible with a little effort to readers with no previous knowledge of model theory The authors have collaborated closely to achieve a coherent and self contained presentation whereby the completeness of exposition of the chapters varies according to the existence of other good references but comments and examples are always provided to give the reader some intuitive understanding of the subject *Lectures on Algebraic Model Theory* Bradd T. Hart, Matthew Valeriote, 2002 This thin volume contains three sets of lecture notes representing recent developments in differential scales of minimality and tame convergence theory The first lecture outlines the basics of differential fields and then addresses topics like differential varieties and tangent bundles Kolchin's logarithmic derivative and Manin's construction The second describes added exponentiation T convexity and tame extensions piecewise linearity the Wilkie inequality and the valuation property And the third considers the structure and varieties of finite algebra No index c Book News Inc Model Theory, Algebra, and Geometry Deirdre Haskell, Anand Pillay, Charles Steinhorn, 2000-07-03 Model theory has made substantial contributions to semialgebraic subanalytic p adic rigid and diophantine geometry These applications range from a proof of the rationality of certain Poincare series associated to varieties over p adic fields to a proof of the Mordell Lang conjecture for function fields in positive characteristic In some cases such as the latter it is the most abstract aspects of model theory which are relevant This book originally published in 2000 arising from a series of introductory lectures for graduate students provides the necessary background to understanding both the model theory and the mathematics behind these applications The book is unique in that the whole spectrum of contemporary model theory stability simplicity of minimality and variations is covered and diverse areas of geometry algebraic diophantine real analytic p adic and rigid are introduced and discussed all by leading experts in their fields **Model Theory and Algebraic Geometry** Elisabeth Bouscaren, 2014-09-01 Model Theory of Fields David Marker, Margit Messmer, Anand Pillay, 1996-01-01 The model theory of fields is an area for important interactions between mathematical logical and classical mathematics Recently there have been major applications of model theoretic ideas to real analytic geometry and diophantine geometry This book provides an introduction to this fascinating subject In addition to introducing the basic model theory of the fields of real and complex numbers we concentrate on differential fields and separably closed fields the two theories used in Hrushovski's proof of the Mordell Lang conjecture for function fields This book is of interest to graduate students in either logic or in related areas of mathematics such as differential algebra or real algebraic geometry **Model Theory with**

**Applications to Algebra and Analysis: Volume 1** Zoé Chatzidakis, Dugald Macpherson, Anand Pillay, Alex Wilkie, 2008-05-22 The first of a two volume set showcasing current research in model theory and its connections with number theory algebraic geometry real analytic geometry and differential algebra Each volume contains a series of expository essays and research papers around the subject matter of a Newton Institute Semester on Model Theory and Applications to Algebra and Analysis The articles convey outstanding new research on topics such as model theory and conjectures around Mordell Lang arithmetic of differential equations and Galois theory of difference equations model theory and complex analytic geometry o minimality model theory and noncommutative geometry definable groups of finite dimension Hilbert s tenth problem and Hrushovski constructions With contributions from so many leaders in the field this book will undoubtedly appeal to all mathematicians with an interest in model theory and its applications from graduate students to senior researchers and from beginners to experts

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**Model Theory : An Introduction** David Marker, 2002-08-21 Assumes only a familiarity with algebra at the beginning graduate level Stresses applications to algebra Illustrates several of the ways Model Theory can be a useful tool in analyzing classical mathematical structures

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**The Model Theory of Mathematics** Edited by: Kisak,2015-11-07 In mathematics model theory is the study of classes of mathematical structures e g groups fields graphs universes of set theory from the perspective of mathematical logic The objects of study are models of theories in a formal language We call a set of sentences in a formal language a theory a model of a theory is a structure e g an interpretation that satisfies the sentences of that theory Model theory recognizes and is intimately concerned with a duality It examines semantical elements meaning and truth by means of syntactical elements formulas and proofs of a corresponding language To quote the first page of Chang Keisler 1990 universal algebra logic model theory Model theory developed rapidly during the 1990s and a more modern definition is provided by Wilfrid Hodges 1997 model theory algebraic geometry fields although model theorists are also interested in the study of fields Other nearby areas of mathematics include combinatorics number theory arithmetic dynamics analytic functions and non standard analysis In a similar way to proof theory model theory is situated in an area of interdisciplinarity among mathematics philosophy and computer science The most prominent professional organization in the field of model theory is the Association for Symbolic Logic

**Motivic Integration and its Interactions with Model Theory and Non-Archimedean Geometry: Volume 1** Raf Cluckers,Johannes Nicaise,Julien Sebag,2011-09-22 The development of Maxim Kontsevich s initial ideas on motivic integration has unexpectedly influenced many other areas of mathematics ranging from the Langlands program over harmonic analysis to non Archimedean analysis singularity theory and birational geometry This book assembles the different theories of motivic integration and their applications for the first time allowing readers to compare different approaches and assess their individual strengths All of the necessary background is provided to make the book accessible to graduate students and researchers from algebraic geometry model theory and number theory Applications in several areas are included so that readers can see motivic integration at work in other domains In a rapidly evolving area of research this book will prove invaluable This first volume contains introductory texts on the model theory of valued fields different approaches to non Archimedean geometry and motivic integration on algebraic varieties and non Archimedean spaces

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Model Theory in Algebra, Analysis and Arithmetic Lou van den Dries, Jochen Koenigsmann, H. Dugald Macpherson, Anand Pillay, Carlo Toffalori, Alex J. Wilkie, 2014-09-20 Presenting recent developments and applications the book focuses on four main topics in current model theory 1 the model theory of valued fields 2 undecidability in arithmetic 3 NIP theories and 4 the model theory of real and complex exponentiation Young researchers in model theory will particularly benefit from the book as will more senior researchers in other branches of mathematics

**Groups and Model Theory** Olga Kharlampovich, Rizos Sklinos, 2021-05-10 This monograph provides an overview of developments in group theory motivated by model theory by key international researchers in the field Topics covered include stable groups and generalizations model theory of nonabelian free groups and of rigid solvable groups pseudofinite groups approximate groups topological dynamics groups interpreting the arithmetic The book is intended for mathematicians and graduate students in group theory and model theory The book follows the course of the GAGTA Geometric and Asymptotic Group Theory with Applications conference series The first book Complexity and Randomness in Group Theory GAGTA book 1 can be found here <http://www.degruyter.com/books/9783110664911>

*Lectures on Infinitary Model Theory* David Marker, 2016-10-27 Infinitary logic the logic of languages with infinitely long conjunctions plays an important role in model theory recursion theory and descriptive set theory This book is the first modern introduction to the subject in forty years and will bring students and researchers in all areas of mathematical logic up to the threshold of modern research The classical topics of back and forth systems model existence techniques indiscernibles and end extensions are covered before more modern topics are surveyed Zilber s categoricity theorem for quasiminimal excellent classes is proved and an application is given to covers of multiplicative groups Infinitary methods are also used to study uncountable models of counterexamples to Vaught s conjecture and effective aspects of infinitary model theory are reviewed including an introduction to Montalb n s recent work on spectra of Vaught counterexamples Self contained introductions to effective descriptive set theory and hyperarithmetic theory are provided as is an appendix on admissible model theory

*Model Theory and Real Algebraic Geometry* M. Shiota, 1995

*A Shorter Model Theory* Wilfrid Hodges, 1997-04-10 This is an up to date textbook of model theory taking the reader from first definitions to Morley s theorem and the elementary parts of stability theory Besides standard results such as

the compactness and omitting types theorems it also describes various links with algebra including the Skolem Tarski method of quantifier elimination model completeness automorphism groups and omega categoricity ultraproducts O minimality and structures of finite Morley rank The material on back and forth equivalences interpretations and zero one laws can serve as an introduction to applications of model theory in computer science Each chapter finishes with a brief commentary on the literature and suggestions for further reading This book will benefit graduate students with an interest in model theory

**Logic and Algebra** Yi Zhang, 2002 This volume outlines current developments in model theory and combinatorial set theory and presents state of the art research Well known researchers report on their work in model theory and set theory with applications to algebra The papers of J Brendle and A Blass present one of the most interesting areas of set theory Brendle gives a very detailed and readable account of Shelah's solution for the long standing problem of  $\text{Con } \aleph_d$  It could be used in an advanced graduate seminar on set theory Papers by T Altinel J T Baldwin R Grossberg W Hodges T Hyttinen O Lessmann and B Zilber deal with questions of model theory from the viewpoint of stability theory Here Zilber constructs an omega stable complete theory of pseudo analytic structures on algebraically closed fields This result is part of his program of the model theoretic study of analytic structures by including Hrushovski's method in the analytic context The book presents this and further developments in model theory It is geared toward advanced graduate students and researchers interested in logic and foundations algebra and algebraic geometry

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