

MODEL THEORY, ARITHMETIC & ALGEBRAIC GEOMETRY

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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’¹ 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’².

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’³. 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’⁴); 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

¹Date: April, 2019.

²Apperead in *Mathematische Annalen* 76: pp. 447–470.

³Apperead in *Widenskapsakademiet Skriffter, I. Matematik-naturvidenskabeligt Klasse*, 4: 1–36.

⁴Apperead in *Monatshefte für Mathematik* 37: pp. 349–360.

⁵Apperead in *Monatshefte für Mathematik und Physik* 38: 173–198.

Model Theory And Algebraic Geometry

JE Gale



Model Theory And Algebraic Geometry:

Model Theory And Algebraic Geometry Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the energy of words has be more evident than ever. They have the capability to inspire, provoke, and ignite change. Such is the essence of the book **Model Theory And Algebraic Geometry**, a literary masterpiece that delves deep to the significance of words and their affect our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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