

OVERDETERMINATION OF THEORIES BY EMPIRICAL MODELS: A REALIST INTERPRETATION OF EMPIRICAL CHOICES

ABSTRACT. A model-theoretic realist account of science places linguistic systems and their corresponding non-linguistic structures at different stages or different levels of abstraction of the scientific process. Apart from the obvious problem of underdetermination of theories by data, philosophers of science are also faced with the inverse (and very real) problem of overdetermination of theories by their empirical models, which is what this article will focus on. I acknowledge the contingency of the factors determining the nature – and choice – of a certain model at a certain time, but in my terms, this is a matter about which we can talk and whose structure we can formalise. In this article a mechanism for tracing “empirical choices” and their particularized observational-theoretical entanglements will be offered in the form of Yoav Shoham’s version of non-monotonic logic. Such an analysis of the structure of scientific theories may clarify the motivations underlying choices in favor of certain empirical models (and not others) in a way that shows that “disentangling” theoretical and observation terms is more deeply model-specific than theory-specific. This kind of analysis offers a method for getting an articulable grip on the overdetermination of theories by their models – implied by empirical equivalence – which Kuipers’ structuralist analysis of the structure of theories does not offer.

1. Introduction

Almost all projects that aim at demarcating the “purely” observational (in the sense of so-called “raw sense data”) from the theoretical are beset with certain difficulties which are invariably the result of two major issues. On the one hand, these difficulties arise as a result of the nature of the links postulated to exist between these two kinds of entity and the languages with which they are described, and, on the other hand, the difficulties are caused by the nature of the set of “intended applications” of a theory, especially in terms of the existence of more than one “empirical model” as the “real” domain of reference of the terms of theories. I claim here that a model-theoretic realist analysis of the structure of scientific theories may clarify the motivations underlying choices in favor of certain empirical models (and not others) in the above context of demarcation in a way that shows that “disentangling” theoretical and observation terms is more profoundly model-specific than theory-specific. A mechanism for tracing

Modeltheoretic Realist Interpretation Of Science

Victor M. Corman

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[A Model-Theoretic Realist Interpretation of Science](#) E.B. Ruttkamp,2013-03-14 In this book Emma Ruttkamp demonstrates the power of the full blown employment of the model theoretic paradigm in the philosophy of science Within this paradigm she gives an account of sciences as process and product She expounds the received statement and the non statement views of science and shows how the model theoretic approach resolves the spurious tension between these views In this endeavour she also engages the views of a number of contemporary philosophers of science with affinity to model theory This text can be read by specialists working in philosophy of science or formal semantics by logicians working on the structure of theories and by students in philosophy of science this text offers a thorough introduction to non statement accounts of sciences as well as a discussion of the traditional statement account of science

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The Enigmatic Realm of **Modeltheoretic Realist Interpretation Of Science**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Modeltheoretic Realist Interpretation Of Science** a literary masterpiece penned with a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those who partake in its reading experience.

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