

A unified view of theories

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Abstract

Logic-based approaches to analysing physical theories have become somewhat unpopular among philosophers of science over the past decades. An important reason for this is the widespread view that hardly any actual physical theories (that are commonly formulated in terms of differential equations) can be represented in a logic-based way. I argue that this worry can be overcome and that much can be gained from logic-based analyses of theories. I outline a general logic-based approach to representing theories that are based on differential equations.