

On the Consistency Strength of Axioms for Height and Width Potentialism

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1 Introduction

Potentialism in the foundations of mathematics is a nebulous collection of ideas with links in logic and metaphysics. All the various approaches to potentialism are united by a common theme, namely that modal logic is somehow useful in studying mathematical domains that have traditionally only been approached in the setting of quantification theory. But the ways in which modal logic is applied, and the underlying motivations for its application, vary from instance to instance quite considerably.