

Weakly Infinite Cardinals

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Abstract

A natural extension of Cantor's hierarchic arithmetic of cardinals is proposed. These cardinals have the property that the application of the power set operator a finite number of times will generate the first countable cardinal, Aleph-0. Models for these based on the properties of Hilbert Space and on Combinatorics are suggested.

Keywords: Logic ; Transfinite Arithmetic; Hilbert Space ; Cardinals ; Cantor; Combinatorics I

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