

# The Incalculable Continuum

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## Abstract

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Responding to the continuum.

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## A continuum in sight

The continuum is the finite measure of the metric topology. Whereby any mathematical limit between two end points define the continuum. And that in which the continuum is the continuation of a Gaussian line integral, there can be no end to the continuum besides at the other end. And so as the continuum defines the classical dynamics of (3+1) dimensions, and even the Ad [superstring] dynamics of (10 + 1) dimensional space-time -- as being the continuum of a red apple that falls from a tree to the ground within a giving height or the vibrations of a 10 dimensional close and/or superstring [which defines both its matter and force particle interactions].

Then the continuum is without end as space-time is subject to the No-Boundary Proposal of inflationary quantum cosmology. This is inevitably the paradox of the continuum:

### Paradox:

A continuum is without end. For there is no end in sight to a continuum...

So the continuum must eventually come to terms with futility. That futility is, in its own resolution, a set-theoretic structure: call [ - measure and ] - measure.

An incalculable calculation with the [ [ , ] ] - defines a finite continuum that adheres to number space giving the [ [ , ] ] - parameter of a measure space of a finite metric topology.