

Abstract Submitted  
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**Orders of Infinity** RODOLFO GONZALEZ II, Texas AM University-Kingsville — The current literature lacks a rigorous mathematical framework for the orders of infinity which Dr. Lionel D. Hewett implemented in his Time-Symmetric Cosmology model. Using orders of infinity, one can show that the only observable time-symmetric universe with a finite energy density that could be created from a single physical singularity is a flat space universe of zero curvature. Using an infinitesimal approach to calculus, one can define a first order infinity through taking reciprocals of infinitesimals. Similarly, a second order infinity is defined by taking the reciprocal of the product of two infinitesimals, and higher order infinities are obtained through the same process.

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