1.1 Background and Motivations

The intersection of physics, philosophy, and technology has inspired this exploration into the nature of dimensions and their implications for understanding our universe. Building upon Einstein's Theory of General Relativity, this work proposes a novel hypothesis that incorporates three additional dimensions: zero, infinity, and chance.[1] These 'new' dimensions address some of the most profound and complex mysteries in physics, including the phenomena of dark energy, quantum superposition, and other the limitations of the classical four-dimensional framework.[4], [5], [6]

This paper represents a collaborative effort between the author and large language models (LLMs), including GPT-3.5, GPT-4, GPT-4o, and; for 'outside environment' confirmation and council, assumed various Gemini iterations as well as Wolfram Alpha models. While LLMs occasionally produce errors or nonsensical information, their mathematical capabilities have proven instrumental in developing the equations presented herein. This collaboration exemplifies the potential of emerging non-biological intelligence to assist in scientific inquiry and theory development.[16]

By extending the classical understanding of dimensions, this work challenges conventional paradigms and explores new frameworks for understanding reality. Additionally, it serves as an invitation for experts in theoretical physics, artificial intelligence, and related fields to evaluate the proposed hypothesis and its implications. Through this collaborative effort, biologics and an emerging AGI will refine and expand the boundaries of current scientific and philosophical understanding.

In parallel with the main body of this work, a comprehensive appendix series has been developed. These appendices provide formal mathematical proofs, detailed derivations, computational tools, and unique predictions that extend and rigorously support the main framework. Readers interested in technical detail, empirical tests, or the foundations of the model are encouraged to consult these appendices, which are referenced throughout the paper and available in full on the project website.