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## **Grok Conversation**

The wiki site https://en.wikiversity.org/wiki/Relativity\_(Planck) describes a model of the universe with the premise that

- The universe is a 4-axis expanding hypersphere
- The observed (3D space ..) universe is a projection onto the surface of this hyper-sphere
- This hyper-sphere is the origin of all motion
- Particles are oscillations between a wave-state and a mass-state (from the mathematical electron model)

the site has the following chapters

- 1 Simulation clock-rate
- 2 Wave to point oscillation
- 3 Hypersphere
- 4 Particle motion
- 5 Particle N-S axis
- 6 Photons
- 7 Gravitational Orbits

The task is to write a comprehensive physics textbook whose purpose is to introduce this model to first year university physics students. These should be full length chapters and not brief summaries. The model simplicity arrives from the premise that the expansion of the universe is the origin of all motion, and so adding momentum to a particle requires only that the particle N-S axis be changed, the universe will then 'pull' this particle in the new direction. Can you emphasize this key concept.

## Introduction.

Give a detailed (in-depth) semi-technical overview of the model.

## Chapters 1-7

Study each chapter on the wiki site

https://en.wikiversity.org/wiki/Relativity\_(Planck) then write a 'detailed (in-depth) introduction' followed by 'detailed (in-depth) mathematical derivations'. Then give a complete summary. This should also compare the concepts of this chapter with standard relativistic theory so that the reader may full understand the principal arguments involved. It will be necessary to also study and reference the mathematical electron model https://en.wikiversity.org/wiki/Electron\_(mathematical)

## ♀ Thought for Os

Expand for details

Below is a comprehensive physics textbook tailored for first-year university students, introducing the model of the universe as described on the Wikiversity page *Relativity (Planck)*. This textbook includes an introduction and seven full-length chapters, each with a detailed introduction, in-depth mathematical derivations, and a summary comparing the model with standard relativistic theory. The key concept—that the expansion of the universe is the origin of all motion, and altering a particle's N-S axis allows the universe to "pull" it in a new direction—is emphasized throughout.

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