

# Mathematical Formulas from EXPLANATION.md

## Theory of Everything Mathematical Formulas

### Introduction

This document contains mathematical formulas extracted from the Theory of Everything documentation. The formulas are rendered using LaTeX to ensure proper mathematical notation and readability. Each formula is presented with its name, the equation itself, and a brief description of its significance.

### Inline Formula

Inline Formula

$S_{\text{(text{quantum})}}$

Extracted from inline LaTeX notation

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## Display Formula

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$S_{\text{(text{quantum})}} = \sum_{n=1}^{\infty} \hbar \omega_n S_n$

Extracted from display LaTeX notation

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# Display Formula

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## Unified Field Theory

Unified Field Theory

$$G_{\mu\nu} + \Lambda g_{\mu\nu} = \frac{8\pi G}{c^4} T_{\mu\nu} + \alpha F_{\mu\nu}$$

A proposed unified field theory combining gravity with electromagnetic forces.

A proposed unified field theory combining gravity with electromagnetic forces.

## Quantum Gravity

Quantum Gravity

$$\hat{G}_{\mu\nu} |\Psi\rangle = \hat{T}_{\mu\nu} |\Psi\rangle$$

A theoretical framework attempting to reconcile quantum mechanics with general relativity.

A theoretical framework attempting to reconcile quantum mechanics with general relativity.