

# Energiebasierte Formeln der T0-Theorie

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# Kapitel 1

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## **Zusammenfassung**

Die T0-Theorie verwendet ein energiebasiertes Framework, in dem alle physikalischen Größen durch Energie und Energieverhältnisse ausgedrückt werden. Dieses Dokument sammelt die wichtigsten energiebasierten Formeln.

## 1.1 Fundamentale Beziehungen

### 1.1.1 Die Zeit-Energie-Dualität

Die Basis aller Formeln ist:

$$\boxed{T \cdot E = 1} \quad (1.1)$$

### 1.1.2 Masse-Energie

Die Masse-Energie-Beziehung:

$$E = mc^2 \quad \Leftrightarrow \quad m = \frac{E}{c^2} \quad (1.2)$$

In natürlichen Einheiten ( $c = 1$ ):  $E = m$ .

## 1.2 Teilchenmassen

### 1.2.1 Allgemeine Massenformel

Alle Teilchenmassen folgen aus:

$$m_i = \frac{K_{\text{frak}}}{\xi_i} \quad (1.3)$$

wobei  $\xi_i = \xi_0^{n_i}$  für Teilchen  $i$ .

### 1.2.2 Leptonenmassen

Lepton	Formel	Masse
Elektron	$m_e = K_{\text{frak}}/\xi_0^3$	0,511 MeV
Myon	$m_\mu = K_{\text{frak}}/\xi_0^2$	105,7 MeV
Tau	$m_\tau = K_{\text{frak}}/\xi_0$	1777 MeV

Tabelle 1.1: Leptonenmassen in T0

## 1.3 Anomale magnetische Momente

Die T0-Formel für anomale magnetische Momente:

$$\Delta a_\ell^{\text{T0}} = \frac{5\xi^4}{96\pi^2\lambda^2} \cdot m_\ell^2 \quad (1.4)$$

## 1.4 Kosmologie

### 1.4.1 Hubble-Parameter

$$H = H_0 \cdot f(\xi, z) \quad (1.5)$$

### 1.4.2 Kosmologische Konstante

$$\Lambda_{\text{eff}} = \frac{\xi^2}{r_0^2} \tag{1.6}$$

#### **Zusammenfassung der T0-Formeln**

Alle Formeln enthalten den Parameter  $\xi = \frac{4}{3} \times 10^{-4}$ :

- Massen:  $m \sim 1/\xi^n$
- Anomale Momente:  $\Delta a \sim \xi^4$
- Kosmologie:  $\Lambda \sim \xi^2$

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