

# $E = mc^2$ dans la Théorie T0

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# Chapter 1

## E = mc<sup>2</sup>

### 1.1 Introduction

La célèbre équation d'Einstein  $E = mc^2$  exprime l'équivalence entre la masse et l'énergie. La théorie T0 étend cette relation.

### 1.2 Équation originale

$$E = mc^2 \tag{1.1}$$

#### title

- La masse est une forme d'énergie concentrée
- L'énergie peut être convertie en masse et vice versa
- $c^2$  est le facteur de conversion

### 1.3 Extension T0

Dans la théorie T0, cette équation est étendue :

$$E = mc^2 \cdot f(\xi) \tag{1.2}$$

où  $f(\xi)$  encode les corrections dues à la dualité temps-masse.

### 1.4 Dualité temps-masse

La relation fondamentale :

$$t \cdot m = \text{constante} \tag{1.3}$$

implique que l'énergie, la masse et le temps sont intimement liés.

## 1.5 Applications

1. Réactions nucléaires
2. Création de paires particule-antiparticule
3. Annihilation matière-antimatière

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