

# Le Mystère de 137

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# Chapitre 1

## Le Mystère de 137

### 1.1 Introduction

Le nombre 137 fascine les physiciens depuis des décennies. C'est l'inverse approximatif de la constante de structure fine  $\alpha$ .

### 1.2 La constante de structure fine

$$\alpha = \frac{e^2}{4\pi\varepsilon_0\hbar c} \approx \frac{1}{137,036} \quad (1.1)$$

#### title

$\alpha$  mesure la force du couplage électromagnétique. Sa valeur proche de 1/137 a intrigué des physiciens comme Pauli, Feynman et Dirac.

### 1.3 Perspective T0

Dans la théorie T0, la valeur de  $\alpha$  émerge naturellement de la géométrie du champ  $\xi$  :

$$\alpha = \xi^{n_\alpha} \cdot f(\text{géométrie}) \quad (1.2)$$

### 1.4 Citations célèbres

Richard Feynman a dit : « C'est l'un des plus grands damnés mystères de la physique : un nombre magique qui nous arrive sans aucune compréhension par l'homme. »

Wolfgang Pauli était obsédé par ce nombre. Il est mort dans la chambre d'hôpital numéro 137.

## 1.5 Résolution T0

title

La théorie T0 démystifie le nombre 137 en le dérivant du paramètre fondamental  $\xi$ . Ce n'est pas un nombre mystique, mais une conséquence de la géométrie de l'espace-temps.

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