

# Phénomènes Cosmiques

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# Chapter 1

## Phénomènes Cosmiques

### 1.1 Introduction

L'univers présente de nombreux phénomènes à grande échelle. La théorie T0 offre une explication unifiée de ces phénomènes.

### 1.2 Le fond diffus cosmologique (CMB)

$$T_{CMB} = 2,725 \text{ K} \quad (1.1)$$

title

Le CMB n'est pas un vestige du Big Bang, mais une manifestation du champ  $\xi$  :

$$T_{CMB} = \frac{16}{9} \xi^2 \cdot E_\xi \quad (1.2)$$

### 1.3 Décalage vers le rouge

Le décalage vers le rouge cosmologique :

$$z = \frac{\lambda_{obs} - \lambda_{mis}}{\lambda_{mis}} \quad (1.3)$$

Dans T0, cela résulte de l'interaction avec le champ  $\xi$ , pas de l'expansion.

### 1.4 Matière sombre

Les effets attribués à la matière sombre sont expliqués par le champ  $\xi$  :

- Courbes de rotation des galaxies
- Lentilles gravitationnelles
- Formation des grandes structures

## 1.5 Énergie sombre

Dans un univers statique  $T_0$ , l'énergie sombre n'est pas nécessaire.

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