

# Structure Mathématique de la Théorie T0

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# Chapitre 1

## Structure Mathématique

### 1.1 Introduction

La théorie T0 possède une structure mathématique élégante basée sur le paramètre fondamental  $\xi$ .

### 1.2 Espaces et Géométrie

L'espace-temps T0 a une structure fractale caractérisée par :

$$ds^2 = g_{\mu\nu}(\xi)dx^\mu dx^\nu \quad (1.1)$$

title

La métrique dépend du paramètre  $\xi$ , ce qui modifie la géométrie à différentes échelles.

### 1.3 Groupes de symétrie

Les symétries de la théorie T0 :

1. Invariance de Lorentz (modifiée)
2. Symétrie  $\xi : \xi \rightarrow \lambda\xi$
3. Dualité temps-masse

### 1.4 Équations fondamentales

L'équation de champ T0 :

$$G_{\mu\nu} + \xi T_{\mu\nu}^{(\xi)} = 8\pi GT_{\mu\nu} \quad (1.2)$$

où  $T_{\mu\nu}^{(\xi)}$  est le tenseur énergie-impulsion du champ  $\xi$ .

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