UNIVERSITY
OF OSLO

Master's thesis

Gravitational waves from topological defects

Any short subtitle

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Contents

Notation

Common abbreviations

CDM cold dark matter

DW domain wall

GW gravitational wave

Contents

Part I

Introduction

Chapter 1

Introduction

We use the convention that $(-,+,+,+)$ is the metric signature.
SO(3) is a group
SO(3) is a group
SO(3) is a group
The order $O(1)$ is large
The order $O(1)$ is large
The Planck unit $M_{\rm Pl}$
We have a GW with $\rho_{\rm GW}$ or $\rho_{\rm gw}$ $\ldots \rho_{\rm GW}$

$$\begin{aligned} f(x) &= \int \frac{d^4k}{(2\pi)^4}\, \mathrm{e}^{-\mathrm{i}k\cdot x}\, \tilde{f}(k) \\ \tilde{f}(k) &= \int d^4x\, \mathrm{e}^{\mathrm{i}k\cdot x} f(x) \end{aligned} \tag{1.1}$$

1.1 Nomenclature

[LIST OF SYMBOLS?]

Chapter 2

Theoretical Background

In the context of . . . blah . . . blah

2.1 High-Performance Computing

Part II

Analytical work

Chapter 3

Dummy chapter

3.1 Dummy section

Hello this is a nice thesis

$$h_{ij} = \boldsymbol{a}^{\S}\square \widehat{\Xi} \tag{3.1}$$

Nanna is cool

Alma is lame

(a) . **(b)** .

Figure 3.1: .

helo
See Eq. (3.1). fdf [1]
Boltzmann equation

$$\hat{L}[f] = \hat{C}[f]; \quad \hat{L}[f] \equiv \frac{\mathrm{d}f}{\mathrm{d}\lambda} \tag{3.2}$$

$$\mathrm{e}^{\mathrm{i}\pi} \tag{3.3}$$

Hei jeg heter Nanna

Part III

Numerical work

Part IV

Finishing

Bibliography

[1] Tanmay Vachaspati. *Kinks and Domain Walls: An Introduction to Classical and Quantum Solitons*. Cambridge University Press, Cambridge, 2006.