

UNIVERSITY OF CALIFORNIA  
Los Angeles

**Integration and Goal-Guided Scheduling of Bottom-Up  
and Top-Down Computing Processes in Hierarchical  
Models**

A dissertation submitted in partial satisfaction  
of the requirements for the degree  
Doctor of Philosophy in Physics

by

**Your Official Name**

2017

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ABSTRACT OF THE DISSERTATION

**Integration and Goal-Guided Scheduling of Bottom-Up  
and Top-Down Computing Processes in Hierarchical  
Models**

by

**Your Official Name**

Doctor of Philosophy in Physics

University of California, Los Angeles, 2017

Professor Chair's name 1, Chair

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The dissertation of Your Official Name is approved.

Committee Member 1 Name

Committee Member 2 Name

Committee Member 3 Name

Chair's name 1, Committee Chair

University of California, Los Angeles

2017

*To my mother . . .  
who—among so many other things—  
saw to it that I learned to touch-type  
while I was still in elementary school*

# TABLE OF CONTENTS

<b>1</b>	<b>Introduction . . . . .</b>	<b>1</b>
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## LIST OF FIGURES

## LIST OF TABLES



## ACKNOWLEDGMENTS

(Acknowledgments omitted for brevity.)

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## PUBLICATIONS

- [1] Alexander Kusenko, Masahiro Kawasaki, Lauren Pearce, and Louis Yang, “Relaxation leptogenesis, isocurvature perturbations, and the cosmic infrared background,” (2017), [arXiv:1701.02175 \[hep-ph\]](#) .
- [2] Alexander Kusenko, Lauren Pearce, and Louis Yang, “Leptogenesis via the 750 GeV pseudoscalar,” *Phys. Rev. D* **93**, 115005 (2016), [arXiv:1604.02382 \[hep-ph\]](#) .
- [3] Helene Gertov, Francesco Sannino, Lauren Pearce, and Louis Yang, “Baryogenesis via Elementary Goldstone Higgs Relaxation,” *Phys. Rev. D* **93**, 115042 (2016), [arXiv:1601.07753 \[hep-ph\]](#) .

# CHAPTER 1

## Introduction

For text, let's use the first words out of the ispell dictionary.

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