## This is the Name of my Thesis

by

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# This thesis entitled: This is the Name of my Thesis written by Gregory James Petropoulos has been approved for the Department of Physics

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The final copy of this thesis has been examined by the signatories, and we find that both the content and the form meet acceptable presentation standards of scholarly work in the above mentioned discipline.

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This is the Name of my Thesis

Thesis directed by Prof. Anna Hasenfratz

## Dedication

To all of the fluffy kitties.

# ${\bf Acknowledgements}$

Here's where you acknowledge folks who helped. But keep it short, i.e., no more than one page, as required by the Grad School Specifications.

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## Introduction

## 1.1 Abstract

This is the chapter 1 section 1 text.

## 1.2 Organization

this is the chapter 1 section 2 text.

Strongly Coupled Gauge Theories

Lattice Field Theory

Lattice Beyond the Standard Model

## Running Coupling and the Renormalization Group

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- 5.2 Renormalization Group
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$$SU(3)N_f = 12$$
 Results

- 6.1 MCRG Results
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Conclusion

### Appendix A

#### Weird Exam Answers

**About appendices:** Each appendix follow the same page-numbering rules as a regular chapter; the first page of a (multi-page) appendix is not numbered. By the way, the following are supposedly authentic answers to English GCSE exams!

- (1) The Greeks were a highly sculptured people, and without them we wouldnt have history.

  The Greeks also had myths. A myth is a female moth.
- (2) Actually, Homer was not written by Homer but by another man of that name.
- (3) Socrates was a famous Greek teacher who went around giving people advice. They killed him. Socrates died from an overdose of wedlock. After his death, his career suffered a dramatic decline.
- (4) Julius Caesar extinguished himself on the battlefields of Gaul. The Ides of March murdered him because they thought he was going to be made king. Dying, he gasped out: Tee hee, Brutus.
- (5) Nero was a cruel tyranny who would torture his subjects by playing the fiddle to them.
- (6) In midevil times most people were alliterate. The greatest writer of the futile ages was Chaucer, who wrote many poems and verses and also wrote literature.
- (7) Another story was William Tell, who shot an arrow through an apple while standing on his sons head.

- (8) Writing at the same time as Shakespeare was Miguel Cervantes. He wrote Donkey Hote.

  The next great author was John Milton. Milton wrote Paradise Lost. Then his wife died and he wrote Paradise Regained.
- (9) During the Renaissance America began. Christopher Columbus was a great navigator who discovered America while cursing about the Atlantic. His ships were called the Nina, the Pinta, and the Santa Fe.
- (10) Gravity was invented by Issac Walton. It is chiefly noticeable in the autumn when the apples are falling off the trees.
- (11) Johann Bach wrote a great many musical compositions and had a large number of children. In between he practiced on an old spinster which he kept up in his attic. Bach died from 1750 to the present. Bach was the most famous composer in the world and so was Handel. Handel was half German half Italian and half English. He was very large.
- (12) Soon the Constitution of the United States was adopted to secure domestic hostility. Under the constitution the people enjoyed the right to keep bare arms.
- (13) The sun never set on the British Empire because the British Empire is In the East and the sun sets in the West.
- (14) Louis Pasteur discovered a cure for rabbis. Charles Darwin was a naturalist who wrote the Organ of the Species. Madman Curie discovered radio. And Karl Marx became one of the Marx brothers.

### Appendix B

### Ode to Spot

(Data, Stardate 1403827) (A one-page chapter — page must be numbered!) Throughout the ages, from Keats to Giorchamo, poets have composed "odes" to individuals who have had a profound effect upon their lives. In keeping with that tradition I have written my next poem ...in honor of my cat. I call it... Ode... to Spot. (Shot of Geordi and Worf in audience, looking mystified at each other.)

Felus cattus, is your taxonomic nomenclature an endothermic quadruped, carnivorous by nature? Your visual, olfactory, and auditory senses contribute to your hunting skills, and natural defenses. I find myself intrigued by your sub-vocal oscillations, a singular development of cat communications that obviates your basic hedonistic predilection for a rhythmic stroking of your fur to demonstrate affection. A tail is quite essential for your acrobatic talents; you would not be so agile if you lacked its counterbalance. And when not being utilized to aid in locomotion, It often serves to illustrate the state of your emotion.

(Commander Riker begins to applaud, until a glance from Counselor Troi brings him to a halt.)

Commander Riker, you have anticipated my denouement. However, the sentiment is appreciated.

I will continue.

O Spot, the complex levels of behavior you display connote a fairly well-developed cognitive array. And though you are not sentient, Spot, and do not comprehend I nonetheless consider you a true and valued friend.