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In Partial Fulfillment of the Requirements for the
Degree of
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ABSTRACT

[This abstract must provide a succinct and informative condensation of your work. Candidates are welcome to prepare a lengthier abstract for inclusion in the dissertation, and provide a shorter one in the CaltechTHESIS record.]

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NOTATION

.

Galaxy. A system of stars independent from all other systems.

Orbital indices.

a, b, c, d. Virtual.

i, j, k, l. Occupied.

p, q, r, s. General.

Chapter 1

INTRODUCTION

1.1 Motivation for *GW*: moving past a mean-field description

GW is a methodology that derives from the queen's function formalism that attempts to treat the correlation between electrons.

Here's an example of a citation (Goresky and MacPherson, 1981). Here's another (Parusiński and Pragacz, 1998). These will appear in the big bibliography at the end of the thesis.

If you're new to L^AT_EX and would like to begin by learning the basics, please see our free online course available at:

<https://www.overleaf.com/latex/learn/free-online-introduction-to-latex-part-1>

You can define nomenclatures as you talk about key terms in your thesis. So what's a galaxy?

1.2 This is a Section

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Figure 1.1: This is a figure

This is a subsection

Area	Count
North	100
South	200
East	80
West	140

Table 1.1: This is a table

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Here's an endnote.¹

1.3 This is Another Section

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Chapter 2

THIS IS THE SECOND CHAPTER

If you'd like to have separate bibliographies at the end of each chapter, put a `refsection` around the material of each chapter, then cite as usual – e.g. (Goresky and MacPherson, 1981; Fulton, 1983). Then do a `\printbibliography` just before the `refsection` ends.

References

- Fulton, William (1983). “Introduction to intersection theory in algebraic geometry”. In: *Regional Conference Series in Mathematics*. 54.
- Goresky, Mark and Robert MacPherson (1981). “On the topology of complex algebraic maps”. In: *Algebraic Geometry Proceedings, La Rábida, Lecture Notes in Mathematics*. 961.

Chapter 3

THIS IS THE THIRD CHAPTER

Cahn, J. K. B., S. Brinkmann-Chen, T. Spatzal, J. A. Wiig, A. R. Buller, O. Einsle, Y. Hu, M. W. Ribbe, and Arnold F. H. (2015). “Cofactor specificity motifs and the induced fit mechanism in class I ketol-acid reductoisomerases”. In: *Biochemical Journal* 468.3, pp. 475–484. doi: [10.1042/BJ20150183](https://doi.org/10.1042/BJ20150183).

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Chapter 4

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Chapter 5

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Chapter 6

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Chapter 7

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Chapter 8

THIS IS THE EIGHTH CHAPTER

BIBLIOGRAPHY

- Goresky, Mark and Robert MacPherson (1981). “On the topology of complex algebraic maps”. In: *Algebraic Geometry Proceedings, La Rábida, Lecture Notes in Mathematics*. 961.
- Parusiński, Adam and Piotr Pragacz (Jan. 1998). “Characteristic classes of hypersurfaces and characteristic cycles”. preprint.