

[TITLE LINE 1]

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A thesis submitted for the degree of

Doctor of Philosophy

The Australian National University

Research School of Astronomy & Astrophysics



**Australian
National
University**

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To family, friends, and the wonderful universe we are intimately connected with

Disclaimer

I hereby declare that the work undertaken in this thesis has been conducted by me alone, except where indicated in the text. I conducted this work between October 2019 and March 2023, during which period I was a PhD student at the Australian National University. This thesis, in whole or any part of it, has not been submitted to this or any other university for a degree.

This thesis has been compiled as a Thesis by Compilation in accordance with relevant ANU policies. Each of the 2 main chapters in this thesis have been published in peer reviewed journals. I have made significant contribution to each of these journal articles and have written the text of the papers myself, except where indicated otherwise.

A handwritten signature in black ink, appearing to read 'Signature', written over a light gray rectangular background.

[Author Name]

22 January 2024

Acknowledgements

Abstract

Contents

| | |
|------------------------------|----------|
| List of Figures | iv |
| List of Tables | v |
| 0 Introduction | 1 |
| 0.1 Thesis Outline | 1 |
| 1 Chapter 1 | 2 |
| 2 Chapter 2 | 3 |
| 3 Conclusions | 4 |
| Bibliography | 5 |

List of Figures

List of Tables

Introduction

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0.1 Thesis Outline

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Chapter 1

Want to know about star formation :) Federrath (2018)

Chapter 2

Conclusions

Bibliography

Federrath, C. 2018, *Physics Today*, 71, 38 (ADS entry)

