

Radio Interferometric Studies of Cool Evolved Stellar Outflows

A dissertation submitted to the University of Dublin
for the degree of Doctor of Philosophy

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Declaration

I declare that this thesis has not been submitted as an exercise for a degree at this or any other university and it is entirely my own work.

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Summary

You should write a nice summary here...

A dedication if you wish...

Acknowledgements

Some sincere acknowledgements...

List of Publications

1. **Surname, A.**, Surname, B. A., & Surname, C.
“A Wonderful Paper that I Wrote”,
Proceedings of the 16th Wonderful Workshop on things that are Great.
Lovely Society of the Amazing Conference Series, vol. 448, pp. 713 (2011)

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1

Introduction

Here is the introduction of the thesis, complete with a few references ([Prothero & Buell, 2007](#); [Sagan, 1997](#)). Section [1.1](#) contains Equation [1.1](#), Section [1.2](#) has Figure [1.1](#) and Section [1.3](#) has Table [1.1](#). Chapter [2](#) has pretty much nothing in it.

1.1 First Section

This section has an equation. Here it is:

$$L_{\odot} = 4\pi R_{\odot}^2 \sigma T_e^4 \tag{1.1}$$

which is a nice way of describing the luminosity.

1.2 Second Section

So this section has a figure in it^{[1](#)}. That figure depicts the basic structure of a red giant.

¹And also a footnote.

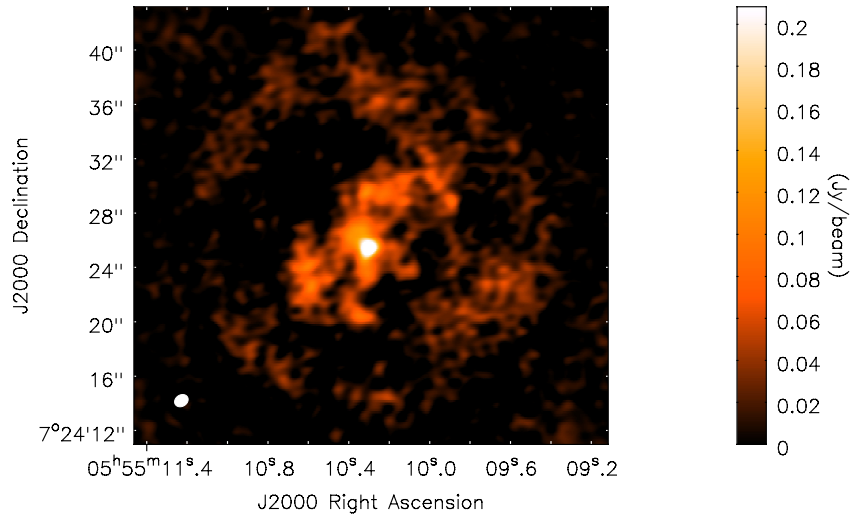


Figure 1.1: Red Giant and Asymptotic Giant Branch Stars. The left side of the figure shows the basic structure of a star on the giant branch of the HR diagram, while the right side shows a similar star after it has evolved to ascend the asymptotic giant branch. *Image Credit: Australian Telescope National Facility.*

1.3 Second Section

This section contains a basic table.

Table 1.1: Physical Properties of α Boo and α Tau.

Property	α Boo	α Tau	Reference
Spectral Type			1, 2
HD Number	124897	29139	...
M (M_{\odot})	0.8 ± 0.2	1.3 ± 0.3	3, 4
θ_{UD} (mas)	21.0 ± 0.2	20.2 ± 0.3	5
θ_{LD} (mas)	21.0 ± 0.2	20.2 ± 0.3	5
π (mas)			
Distance (pc)	11.3 ± 0.1	20.4 ± 0.3	6
R (R_{\odot})	25.4 ± 0.3	44.4 ± 1.0	
Log g			
T_{eff} (K)	4294 ± 30	3970 ± 49	5
L (L_{\odot})			
v_{esc} (km s^{-1})	110	106	
v_{∞} (km s^{-1})	~ 40	~ 30	
T_{wind} (K)	$\sim 10,000$	$< 10,000$	
\dot{M} ($M_{\odot} \text{ yr}^{-1}$)	2×10^{-10}	1.6×10^{-11}	
H (H_{\odot})			
References.-(1);(2)(3) Kallinger <i>et al.</i> (2010); (5) di Benedetto (1993) (6) van Leeuwen (2007)			

2

More Stuff

So this Chapter has nothing really, apart from a shout out to Appendix [A](#), and maybe a few more sample references ([Harper & Brown, 2006](#); [Seaquist & Taylor, 1990](#)).



A Nice Appendix

This is where the appendix would go...

References

- DI BENEDETTO, G.P. (1993). Empirical effective temperatures and angular diameters of stars cooler than the sun. *Astronomy & Astrophysics*, **270**, 315–334. (Cited on page 3.)
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- SEAQUIST, E.R. & TAYLOR, A.R. (1990). The collective radio properties of symbiotic stars. *Astrophysical Journal*, **349**, 313–327. (Cited on page 4.)
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