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Thesis for the degree of Superhero
Thesis advisors: Prof. Krusty the Klown, Dr. Clown August
Faculty opponent: The Joker

To be presented, with the permission of the Faculty of Superheroes of Lund University, for public criticism in the Clark Kent lecture hall (Kentsalen) at the Department of Arachnology on Sunday, the 34th of December 1983 at 24:00.

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Classification system and/or index terms (if any)			
Supplementary bibliographical information		Language English	
ISSN and key title		ISBN 1234567890 (print) 0987654321 (pdf)	
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A doctoral thesis at a university in Sweden takes either the form of a single, cohesive research study (monograph) or a summary of research papers (compilation thesis), which the doctoral student has written alone or together with one or several other author(s).

In the latter case the thesis consists of two parts. An introductory text puts the research work into context and summarizes the main points of the papers. Then, the research publications themselves are reproduced, together with a description of the individual contributions of the authors. The research papers may either have been already published or are manuscripts at various stages (in press, submitted, or in draft).

Cover illustration front: A really pretty thing that looks great on the front but has only a remote connection to do with my research (Credits: The awesome person who made this picture).

Cover illustration back: Picture showing my research (Paper v).

Funding information: The thesis work was financially supported by my rich uncle.

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Dedicated to my siblings
Name – Name – Name

Contents

List of publications	ii
Acknowledgements	iii
Popular summary in English	iv
Populärwissenschaftliche Zusammenfassung auf Deutsch	v
Populärvetenskaplig sammanfattning på svenska	vi
Title: Subtitle	I
1 Introduction	1
2 Main results of the research papers	2
3 References	3
Scientific publications	5
Author contributions	5
Paper I: Spiderman vs Superman	7
Appendix: Conference posters	13

List of publications

This thesis is based on the following publications, referred to by their Roman numerals:

- I **Spiderman vs Superman**
F. Lastname, C. Coauthor, ...
Journal for Superheroes, pp. 1–10

- II **On the matter of ...**
F. Lastname, C. Coauthor, ...
Journal for Bankers, pp. 2–30

- III **On the matter of ...**
F. Lastname, C. Coauthor, ...
Journal for Superheroes, pp. 1–10

- IV **On the matter of ...**
F. Lastname, C. Coauthor, ...
Journal for Superheroes, pp. 1–10

- V **On the matter of ...**
F. Lastname, C. Coauthor, ...
Journal for Superheroes, pp. 1–10

- VI **On the matter of ...**
F. Lastname, C. Coauthor, ...
Journal for Superheroes, pp. 1–10

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Acknowledgements

This template was created and shared as a private initiative and comes without support of any kind. If you are happy to have it, you are welcome to say thanks and/or to send beers/goodies! :)

Popular summary in English

Need more languages? Go to `preamble.tex` and add them to the `usepackage[...]\babel` line.
Install the corresponding packages on your system.

Populärwissenschaftliche Zusammenfassung auf Deutsch

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I Introduction

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Figure 1: The Faculty of Science and the Astronomy tower. (Figure: Lund University)

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1.2 Baz Baf

Explaining something cool (see Fig. 1), which can be seen in a fantastic reference (Jr 2006). Figures and tables are placed automatically, such that they are close by but not necessarily on the same page¹.

The concepts are summarized in Table 1.

2 Main results of the research papers

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¹to optimize page space

Table 1: Table caption with a CAPS word, no small caps can be used in table and figure captions because sans serif fonts don't support it.

	Superman	Spiderman
Gender	male	male
Species	Homo Sapien	Human/spider
Homeworld	Gotham City	Earth
Publisher	DC Comics	Marvel Comics

Paper 1

Brief headline summarizing its contents

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3 References

Jr N., 2006, My article

Scientific publications

Author contributions

Co-authors are abbreviated as follows:
Foo Bar (FB),

Paper I: Spiderman vs Superman

I did FB did

Paper II: On the matter of ...

I did FB did

Paper III: On the matter of ...

I did FB did

Paper IV: On the matter of ...

I did FB did

Paper V: On the matter of ...

I did FB did

Paper vi: On the matter of ...

I did nothing. FB did everything.

Conference poster in Appendix A.1

Paper 1



ON THE INTERPRETATION OF THE SPECTROSCOPICALLY OBSERVED ROTATIONS OF GALAXIES

Erik Holmberg

(Communicated by the Astronomer Royal)

I.—*Observations of Spectroscopic Rotation*

1. A great deal of observational work has been done on the spectroscopic rotation of extragalactic objects. During the last ten years the rotational effects to be found within our own galactic system have been very much discussed. However, the first definite evidence of rotation was found, not in our own system, but in external galaxies. The first spectroscopic observations of the rotation of a spiral object were performed by V. M. Slipher * in 1914. Later on evidence has been obtained by Slipher, F. G. Pease †, M. Wolf ‡ and H. W. Babcock §, for the rotations of several galaxies.

According to Slipher, rotations have been definitely established for six objects. These are N.G.C. 221, 224, 1068, 2683, 3623 and 4594. Measurements of the rotations represent extremely difficult work. In general Slipher gives no numerical values of the rotational change of radial velocity. The present paper is intended as a contribution to the interpretation of the observed spectroscopic rotations. When numerical values become accessible for the above six objects it will be possible to enlarge considerably the material of the present investigation.

Very detailed informations about spectroscopic rotation are given by Pease for the two objects N.G.C. 224 and N.G.C. 4594. The rotational change of radial velocity is measured along the major axis at different distances from the centre of the object. For the Andromeda spiral the rotation is determined along the minor axis, too. For both objects the measurements extend over an interval of about $2'.5$ on each side of the centre.

The measurements of Babcock refer to the Andromeda spiral. They extend over the very large interval of $30'$ on each side of the centre of the system. Within the central core the observed rotation agrees with that found by Pease.

2. In this connection the largest interest lies in the relation found between radial velocity and distance from the centre of the object. The above measurements by Pease result in a *linear* relation. This means that the observed angular velocity of rotation is about the same at different distances from the centre. For N.G.C. 224 the rotational change of radial velocity amounts to about 29 km./sec. per $1'$, whereas a value of 167 km./sec. per $1'$ is found for N.G.C. 4594.

It is true that the measurements by Babcock show that the above linear

* *Lowell Bull.* II, 65, 1914.

† Cf. *Handb. d. Astroph.*, V, 2, 851, 1933.

‡ See *Upsala Medd.*, 40, 1928.

§ *P.A.S.P.*, 50, 174, 1938.

Appendix



Appendix: Conference posters

Poster 1: Spiderman vs Superman

Media-Tryck's suggestion to a poster layout, can be downloaded from <https://bildweb.srv.lu.se/login/>. Presented 2067 at the *Symposium for time travel* in Berlin, Germany. For further details refer to Paper 1 and Sect. 1.2.



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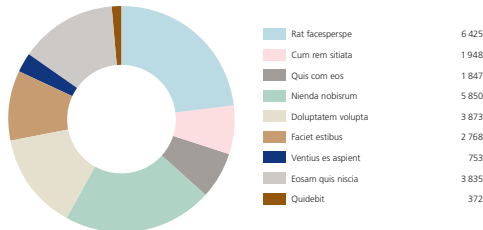
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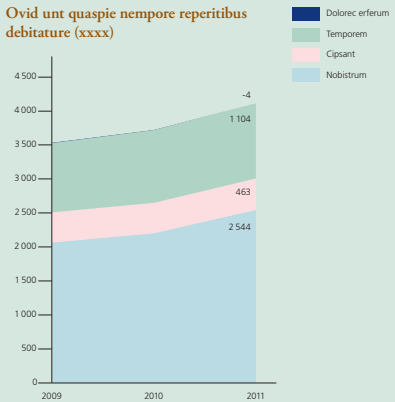
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References

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