

LEIDEN UNIVERSITY

Study of BCG-Substracted Images of Nearby Clusters

by

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"Inspirational phrase here."

Stephen Hawking

Abstract

Natural Sciences Faculty Sterrenwacht

The mt all.

Acknowledgements

I would like to thank my advisor king on. . .

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Dedicated to my parents, whose love and support are my biggest motivation. . .

Introduction

Old stuff

Theoretical Framework

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2.1 Galaxy Clusters

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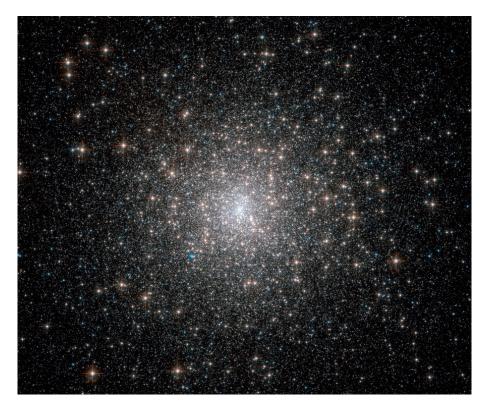


FIGURE 2.1: GA

$$I(R)\sigma_p^2(R) = \frac{2}{\Gamma} \int_R^{\infty} \left(1 - \beta \frac{R^2}{r^2}\right) \frac{\nu \bar{v_r^2} r dr}{\sqrt{r^2 - R^2}}$$
 (2.1)

Whuster.

2.2 Gravitational Lensing

2.3 IMF in BCGs

Observational Procedures

- 3.1 Sextractor
- 3.2 Galfit
- 3.3 Color images

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Study of images

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Conclusions

Thes.

Bibliography

- [1] Michael J. Kurtz, Douglas J. Mink. RVSAO 2.0: Digital Redshifts and Radial Velocities. Harvard-Smithonian Center for Astrophysics, Cambirdge, MA 02138, 1993.
- [2] Roueff F., Salati P., Tillet R. The velocity dispersion profile of globular clusters: a closer look. preprint astro-ph/9707174v1.
- [3] Binney J., Tremaine S.. Galactic Dynamics. Princeton University Press, 1994.
- [4] http://news.ucsc.edu/2014/11/globular-clusters.html
- [5] R. Ibata, C. Nipoti, A. Sollima et. al. *Do globular clusters possess Dark Matter halos?*. MNRAS, Ras 2012.