Department of Physics and Astronomy
University of Heidelberg

Bachelor Thesis in Physics
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born in Düsseldorf (Germany)

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About ...

This Bachelor Thesis has been carried out by Sophia Milanov at the
Max Planck Institute for Astronomy in Heidelberg
under the supervision of
Dr. Glenn van de Ven

Abstract

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

This is the second paragraph. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

And after the second paragraph follows the third paragraph. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

After this fourth paragraph, we start a new paragraph sequence. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

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Contents

Part I.
Introduction

1. What is a globular cluster in the Milky Way?

150 of them
kugelförmige anordnung von Sternen 10**6 bis 10**8
große frage: IMBHs ja/nein

2. Actions&orbits

integral of motion
klarste beschreibung des orbits
actions zeitlich konstant
schon lange sind actions bekannt
auch vom sonnensystem
für andere extrem schwierig zu berechnen
mit supercomputern endlich möglich

Part II.
Theory

3. star formation history

4. velocity dispersion

5. Poisson's equation

density & potential

6. Orbits

7. actions

Part III.
Results & Discussion

8. Models of globular clusters

8.1. CMD

color magnitude diagram aussage
alter
metallicity
star formation

8.2. Velocity dispersion

aussage
plots
erklärung physikalisch

8.3. Density profile

plots
bestätigung kugelförmig
potential daraus

8.4. Potential

9. Orbits

10. Actions

11. Actions along orbits

12. Actions from different globular clusters

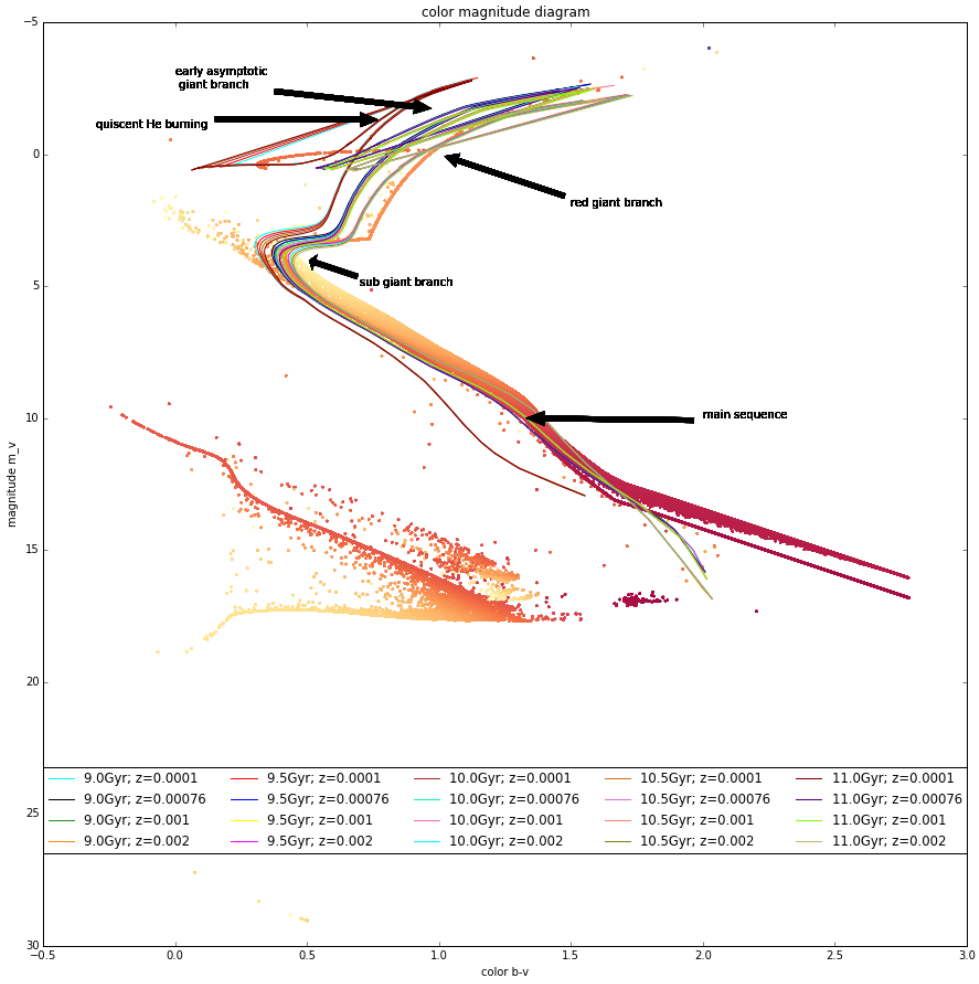

Figure 1: cmd isochrones

Part IV.
Summary