

# ASSIGNMENT

## I. Goal of the assignment

The assignment is here to see if you can use the concepts we have seen in class to study an object in the sky. For this reason, the topic of the assignment is very broad. You will have to study the globular cluster Omega Centauri (NGC5139) and its content. It is to you to find something to study. It can be the global content of the cluster, some peculiar objects, a multi-wavelength study of one of the sources, the possibilities are numerous. You can have a look to various published works to find some ideas.

## II. How to do the assignment

You will be given a virtual machine, with some tools already installed. I will also have installed some calibration files you may need, and a few sets of observations. If you do want to use other tools, you are free to install them. If you need other observations, please let me know and I will provide them if they are not readily accessible. The practical classes of Friday morning will be devoted to learning how to use the tools and the virtual machine. These classes will not be recorded, as they are here to start the hands-on-data work.

## III. What to prepare

You will need to prepare a report, about what you have done, and how. You will have to explain the methods used, the results you had, and how to reproduce your work. There is no “mandatory result” to obtain: your report will be judged on what you tried to achieve and how. Failing in explaining the methods and how to reproduce your work will for sure attract a bad grade. A good report should be about 10 pages long, including the figures, if you are using an 11 pt or 12 pt font. A shorter report will not automatically be poorly marked, but if it is too short, this should indicate that something is missing.

## IV. When to give back the report

**Monday 2<sup>nd</sup> of October by 16:00, in PDF format** sent to [bruce.gendre@uwa.edu.au](mailto:bruce.gendre@uwa.edu.au). A strong warning: except if you have documented evidence supporting your case, any late report will incur a penalty of 10% of the mark **per late day**. This means that a week late report will have its mark reduced by 70%: **do not be late!**