

Software recommendation

There's a lot of software that can be used for astrophysics and the laboratory courses. Here we list some recommendations that proved to be useful at some point.

Data reduction

The analysis of data is the main goal in the laboratory courses, some of which are described/linked below.

Image and data visualization

- [DS9](#)
- [QFitsView](#) (has more functions than DS9)

Deep-Sky imaging

- [Fitswork](#)

Spectroscopy

- [IRIS](#)
- [Visual Spec](#)

Image manipulation

GIMP

[gimp](#)

Text editing

Latex

Windows

A minimal installation of the basic Latex packages: [MikTex](#)

The large installation (Caution! It can take >30min to install everything.): [TexLive](#)

Linux

For Linux we also have TexLive. The following packages are required:

```
texlive texlive-lang-german texlive-doc-de texlive-latex-extra
```

Camera controlling

Our single reflex mirror camera ([Cannon 700D](#)) supports remote control via [tethered shooting](#) on a laptop. For this purpose one needs the following driver package

[gphoto2](#)

and a controll software:

[Entangle](#), recommended

[Darktable](#), (too) high number of functions

Orientation at the night sky

Stellarium

[Stellarium - Astronomy program that simulates a planetarium](#)

We also have a [small introduction](#) to Stellarium.

Object visibility

<http://catserver.ing.iac.es/staralt/index.php>

Apps

There are many Apps in the stores, even though most are not very useful for study purposes. A small selection is listed below. (Some might be in German.)

Android

Sky Map

[GooglePlay](#)

SkEye Planetarium

[GooglePlay](#)

Stellarium mobile

Free version: [GooglePlay](#)

Paid plus version: [GooglePlay](#)

Astro Panel

[GooglePlay](#)

Phases of the moon

[GooglePlay](#)

Apple

P.M. Planetarium (needs payment)

[App Store](#)

SSH clients

For the data reduction a linux work station is provided. For the remote login on this machine from a Windows computer one of the following software options is required :

- [MobaXterm](#)
- [PuTTY](#) (the SSH client) in combination with [Xming](#)(the X window server)
- a virtual machines that run some Linuxversion
- or one of the several other SSH client for Windows

We also have a [guide](#) on how to use these software solutions to get access to our workstation.

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