

# 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)

## Photometry

- [Fitswork](#)

## Spectroscopy

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

## Image manipulation

### GIMP

[gimp](#)

## Camera controlling

Our single reflex mirror camera supports remote control via [tethered shooting](#) on a laptop. One needs a driver package

[gphoto2](#)

and a controlling software

[Entangle](#), recommended

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

## Orientation at the night sky

### Stellarium

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

### Object visibility

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

[Here](#) you can find a small introduction to Stellarium. (Translation in progress)

## 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 (needs payment)

[GooglePlay](#)

#### GFS and WRT summary

[GooglePlay](#)

## Astro Panel

[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

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