

# 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 ([Canon 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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