Software recommendation

There's a lot of software that can be used for astrophysics and the laboratory courses. Here we list some recommendations that proofed 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

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