

PlayGround

To Do Lists

here is space for many TODO lists

Wiki

- keep [Orga-page](#) up to date
- complete the [telescope setup](#)
- **extend [Astro photography](#) (german: [Astrofotografie](#)) (Stub) page**
 - Which settings for planet, sun and deep-sky observations?
- **extend [spectrograph](#) (german: [spectrograph](#) page (Stub)**
 - Short user manual
- extend [troubleshooting-page](#) (german: [troubleshooting-page](#)
- set up a weather webcam → students should learn to observe the weather
- extend [bibliography-page](#)
- improve [gdl?](#)
- update and translate our [Jabber-Server](#) page
- adjust Wiki such that it is fully responsive
- **record the setup of the new instruments**
 - BACHES
 - Canon
 - ST-i
- create a small physics lexicon with all important facts about the observations. In particular for N1, so that students can't find exotic elements where they argue then "but..., but Xe has a transition there"
- translate [Interne Seite zu den Beobachtungen](#)
- ~~translate and extend~~ [Seite zum C8](#)
- fill the "To be continued" (german: "Kommt noch") spots in the Wiki with content

Telescope/Instruments

- [fix tracking error / Mirror flop?](#) (see autoguide speed and follow obj)
 - **new tracking-test necessary**
 - ~~switch A-PEC and Dual tracking on~~
 - **new training of A-PEC** → detailed test series
 - make Backlash Adjustment
 - A-PEC seems to reduce the problem (see [here](#)) but one of the axis still seems to have a backlash
- **Clean Schmidt-Plate!** - How? → Maybe wait for next telescope
- complete [list of problems](#) (german: [Fehlerliste](#))
 - observe and record behaviour/problems of the dome
- ~~test ST-i camera with both spectrographs~~ → **Documentation!**
- enhance collimation of the C14 see e.g. [here](#)
- train fine focus?

- test the new filters of the STF-8300 in comparison to the old filters of the ST-8
 - use Baader 2" UHC-S/ L-Booster filter for C6? → filters are ready to test
- check old power adapter
- paint inner gate white
- test UHC-S filters with the ST-7 → Documentation
- ~~clean oculars with Optic Wonder~~ → last cleaning may 2018
- make pinholes
- tinker sun finder for C8

Groundhog Day

- bake drying granulate of the STF8300M (once a year) → next replacement: December 2018
- bake drying granulate of the ST-8 (once a year) → next replacement: Januar 2020
- bake drying granulate of the ST-7 (once a year) → next replacement: Januar 2020
- check drying granulate in the telescope – **last** replacement: 07.01.2019
- clean dome ([see](#)) → next cleaning: summer 2019
- **In autumn, reduce the worm's contact pressure on the worm wheel of the right ascension drive to avoid the "ship horn" ([see](#)). In spring, increase the pressure again such that the right ascension axis can't be moved by hand.**

Telescope computer

- install Linux on the old laptop to test alternative softwares (e.g. this [here](#)) in comparison to the existing installation
- SBIG: update driver and software

General things

- extend observation lists in the svn
- revise presentation key points
- create mails for presentations → Copy&Paste
- **translate svn:**
 - correspondingly adjust structure
 - hints night observation
 - hints solar observation
 - ~~short interview for S1 and S2~~
 - e-mail templates
 - OST manual → obsolete because of Wiki? (rh)
- clean up organisation in the svn → partially done (rh)
- add HIP and SAO numbers to the list of binary stars in the svn, because for example the CGE-Pro understands only SAO
- fill backup with observational data for students in svn
- **Inventory of the OST and lab room 2.009 → [Inventory](#)**
- fill darkarchive continuously with new data
- acquire a raspberry pi as weather cam and for weather information?
- finish bashscript for slot reminder

- create a bashscript to tweet the current weather
- update the telephone list in the dome
- add pictures to gallery
- update QR-Code/install NFC-tag for our gallery on the stairs to the telescope
- create a better/more modern first page for our server

Lab course/Observations/Data processing

- standardise expectation horizons
- extend expectation horizons for interviews (only for internal use)
- N1-instructions: replace spectrum examples
- improve N1
 - optimise DADOS analysis → maybe not necessary anymore because DADOS is used with the ST-8 now which is more insensitive with respect to Fringes → apparently this is only partially correct
 - optimise BACHES analysis
 - improve normalization
 - ~~implement different possibilities for flatfield corrections~~
 - ~~Flatfielding via 1D-flatfield functions~~
 - enable read in of FITS files also in the pipeline
- Adjust `n2_add_images.pro` such that it can react to two different exposure times of the images. (different darkframe directories)
- improve C7
 - fill archive data
 - construct analysis with `nightfall`
- develop alternative master observations
 - rotation velocity of Jupiter using BACHES
 - spectroscopic binaries [Measurement of radial velocity](#)(german link)?
- possible additional bachelor observations:
 - develop bachelor observation regarding a new telescope alignment
 - develop bachelor observation regarding the rotational velocity of Jupiter
 - develop bachelor observation regarding the calibration lamp for the spectrographs → is this still useful since we have BACHES?
 - additional solar observation from C2 covering solar activity
 - C2 should be enhanced → If activities on the sun are visible then observe, if not use archive data
 - Do we have a formula for the intensity profile of a sun spot? – account for influence of the filter

Lab computer

- create a new version of [The laboratory course computer for your home \(a12 to go\)](#) and then update the wiki page (with the whole VirtualBox-thing etc.)

Polaris

- ~~set up a [jabber server](#) on polaris for fast communication? → [Openfire](#) Jabber Server~~
 - document the new Jabber server

- memory script can't work anymore due to the forwarding of the individual slot pages

Wishlist

- two wooden chairs for the dome: The metal chairs are so terribly cold in winter → < 50 Euro
- All-Sky camera 340 from SBIG: source: Baader Planetarium → 2240 Euro [klick](#)
- Seeing-Monitor KAF-0402ME: source: Baader Planetarium → 2910 Euro [klick](#)
- weather station → Which one?
 - or Raspberry Pi Starter Kit (~70€) with [AirPi](#) (~80€) ([for example](#)) with [IR-camera](#) (~30€) and fish-eye ([e.g. this Case](#)) (30€) ([here](#)), 26 Pin GPIO Male to Female Ribbon Cable (~4€)
 - buyable for 200-250€, has to be set up, but it shouldn't be a big deal. With that we would have an All-Sky-camera, Seeing-Monitor and an ultra-mega-super-duper weather station in one thing!

To buy

- ~~memory update für a12~~
 - ~~1TB for the Backup~~

Observation list

- **P Cygni** (as soon as possible with the BACHES - $V = 4.8$ mag)
- observe M4 or a similar globular cluster with the BACHES - just put the slit on the central region for Martin
- M97 (Owl nebula)
- Mars, Saturn, Jupiter, Venus with the DSLR
- NGC6939, NGC7789 with the STF8300M to compare with the ST-8 (N2)
- Mosaic of Andromeda [m31-observed-fields.jpg](#) (1,2,3 - 1x5min | 4 - 60x30s 3x3bin | 5,6,7 - 6x5min)
- Algol, RZ Cas, V1016 Ori, U Sge and U Cep for the C7 data archive
- BACHES-spectra (at least one for every spectral type)
- HD 237299 (spectrum with the DADOS)
- HD 54879 (spectrum with the DADOS + STF8300)
- BD+53 2790 (spectrum with the DADOS)
- take videos with the DSLR?
- NGC 7129
- Xi Persei with the BACHES
- ...

Reservation of observations

[Link](#)

Termin	Reservierung 18:00
Montag timestamp=strtotime('next monday') now=strtotime('last saturday')	free edit
Dienstag timestamp=strtotime('next tuesday') now=strtotime('last saturday')	free edit
Mittwoch timestamp=strtotime('next wednesday') now=strtotime('last saturday')	free edit
Donnerstag timestamp=strtotime('next thursday') now=strtotime('last saturday')	free edit
Freitag timestamp=strtotime('next friday') now=strtotime('last saturday')	free edit
Samstag timestamp=strtotime('next saturday') now=strtotime('last saturday')	no supervisor edit
Sonntag timestamp=strtotime('next sunday') now=strtotime('now')	no supervisor edit
Termin	Reservierung 18:00
Montag timestamp=strtotime('next monday + 7days') now=strtotime('last saturday')	free edit

Reservation of night observations at the OST

- Please log in with your username and password and click afterwards on [edit]
- For the reservation please state the name of your group and the scheduled observations (e.g. *Ba2 - O1, C4*)
- Be mindful of warm clothes (see also distributed checklist)
- Meeting point:
 - in front of the elevator, if you are already in the building
 - in front of the side entrance (south), if the building is locked
- In the case of last-minute scheduling difficulties please let the respective supervisor know *at least 2 hours in advanced* either by phone (see address list) or in person (**NOT** per email oder SMS)

Reservation for C2: limb darkening of the sun

For the C2 observation (limb darkening of the sun) it is not necessarily required to enrol in the wiki. If it is sunny just come to our offices, write a email or give us a call.

Supervisors

- **Rainer** (Raum 2.008)
- **no supervisor**

Absence of the supervisors:

[edit](#)

Observational protocol and und object list

- [download observational protocol](#)
- [download object-list form \(TeX file\)](#)

Dienstag timestamp=strtotime('next tuesday + 7 days') now=strtotime('last saturday')	free edit	Unused nights Number of not utilizes nights during the semester: 0
Mittwoch timestamp=strtotime('next wednesday + 7days') now=strtotime('last saturday')	free edit	edit Record SoSe2015: 11 nights (thereof 3 photometric)
Donnerstag timestamp=strtotime('next thursday + 7days') now=strtotime('last saturday')	free edit	Reservation of time slots for the laboratory computer The laboratory computer is intended for the data reduction in the course of our astrophysical laboratory courses. For the data analysis at the laboratory computer (room 2.113) please enrol via email. Already enrolled are:
Freitag timestamp=strtotime('next friday + 7days') now=strtotime('last saturday')	free edit	edit No registration is necessary for the work on the laboratory computer via SSH. For the password just ask one of the supervisors. Detailed descriptions of the various possibilities for the login can be found here .
Samstag timestamp=strtotime('next saturday + 7days') now=strtotime('last saturday')	no supervisor edit	Laboratory computer for your home
Sonntag timestamp=strtotime('next sunday') now=strtotime('next sunday')	no supervisor edit	We also offer a laboratory computer as a virtual machine, based on VirtualBox . The laboratory computer for your home .

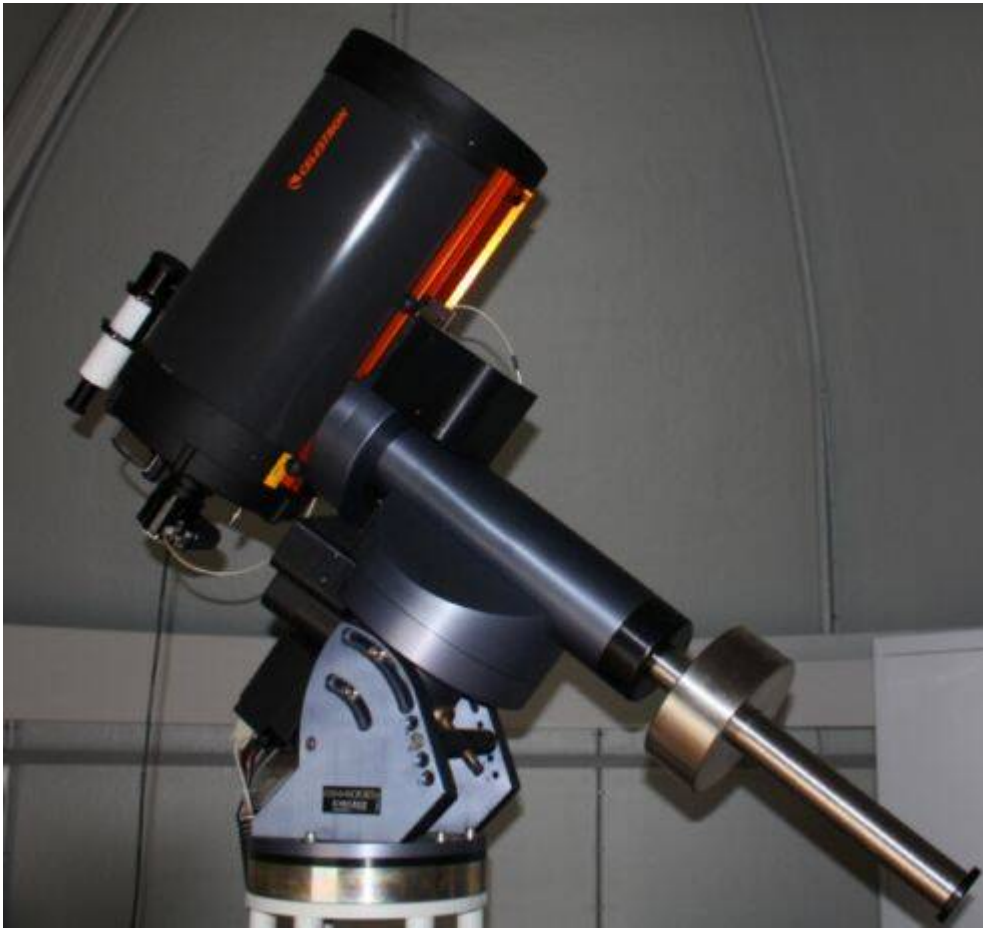
[Overview: laboratory course](#)

Test: date plugin

Heute ist der timestamp=strtotime('today')|now=strtotime('now')

Wir haben die timestamp=strtotime('today+7days')|now=strtotime('now') Kalenderwoche?

Test: imagereference plugin



Our Small Telescope

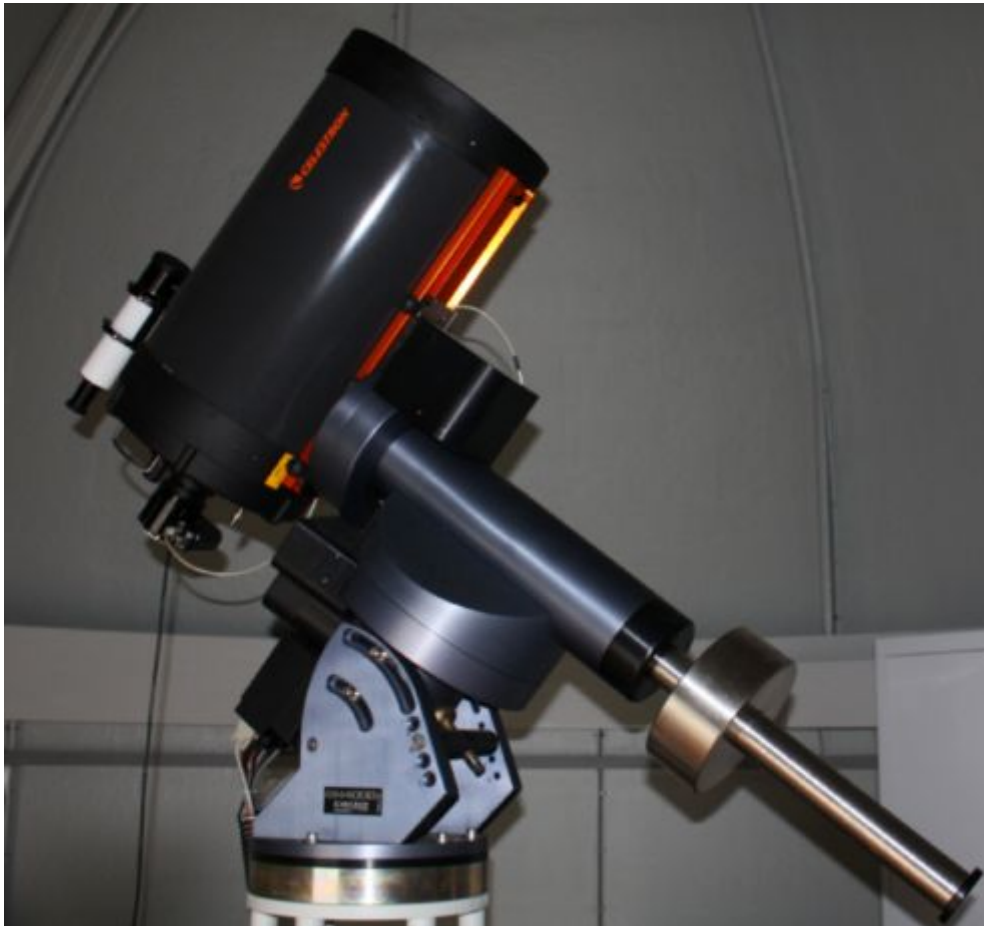


Fig. 1: Our Small Telescope

An image of our small telescope can be seen in [figure 1](#).

Livecharts

Mond + Sonne

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