

# To Do Lists

Here is space for many To Do lists:

## Wiki

- keep [Orga-page](#) up to date
- **extend [Astro photography](#) (german: [Astrofotografie](#)) (Stub) page**
  - Which settings for planet, sun and deep-sky observations?
- **extend [spectrograph](#) (german: [Spektrograph page](#)) (Stub)**
  - Short user manual
- keep [troubleshooting-page](#) (german: [troubleshooting-page](#)) up to date
- extend [bibliography-page](#)
- **document the setup of new instruments**
- Create a short physics glossary containing all the key facts about the observations. This is particularly important for N1, to stop students arguing that exotic elements are present just because Xe has a transition, for example.
- translate [Interne Seite zu den Beobachtungen](#)
- fill the "To be continued" (german: "Kommt noch") spots in the Wiki with content

## Telescope/Instruments

- complete [list of problems](#) (german: [Fehlerliste](#))
  - observe and record behaviour/problems of the dome
- enhance collimation of the C14 see e.g. [here](#)
- paint inner gate white?
- make pinholes?
- clean and blacken sides of OIII Filter and Halpha and SII?

## Groundhog Day

- bake drying granulate of the QHY600Ms, QHY268M (once a year) → next replacement: February 2025
- bake drying granulate of the STF8300M (once a year) → next replacement: Januar 2023
- bake drying granulate of the ST-8 (once a year) → next replacement: Januar 2023
- bake drying granulate of the ST-7 (once a year) → next replacement: Januar 2023
- clean dome ([see](#)) → next cleaning: summer 2026
- clean oculars with Optic Wonder → last cleaning September 2025
- **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

- OMS: update driver and software

## General things

- add HIP and SAO numbers to the list of binary stars in the cloud, because for example the CGE-Pro understands only SAO
- setup backup with observational data for students in the cloud with reference to data archive
- create a script to toot the current weather conditions
- update the telephone list in the dome
- add pictures to gallery
- replace imagemagick in the setup script of the gallery with python libraries?

## Lab course/Observations/Data processing

- improve N1
  - optimise DADOS analysis
  - optimise BACHES analysis
- 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
  - 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 (columba)

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

## Polaris

- -

## To buy / Wishlist

- see prakt cloud

## Observation list

- **P Cygni** (BACHES - V = 4.8 mag)

- Monkey Head Nebula - NGC2174
- M97 (Owl nebula)
- Mars, Saturn, Jupiter, Venus
- 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)
- BD+53 2790 (spectrum with the DADOS)
- NGC 7129
- Xi Persei with the BACHES
- ...

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