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 tooot 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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