A SHORT MANUAL FOR THE COMP-S @ LSO OBSERVER

v.1.6, 2024/11/30, PS+JR

DATE: **OBSERVER(S):**

PA_CORRECTION:
DELTA:

OBS_PROGRAM:
TARGET:
PA:

SPECTRAL LINES:
ART. MOON DIAMETER:

RADIAL OFFSET: based on 2024/10/20 measurements (moon diameter of 28.5 mm)

actual radial shift = radial shift from the table – (28.5 – actual moon diameter/2)

PA+PA_corr [degrees]	**Offset** [mm]	**PA+PA_corr** [degrees[	**Offset** [mm]	**PA +PA_corr** [degrees]	**Offset** [mm]
000	12.8	045	10.8	090	9.2
135	8.5	180	7.8	225	11.0
270	12.7	315	13.0	360	12.8

THE PROCEDURE IN SHORT:

- **basic preparations:**
  - write temperatures – HH:MM
  - dome: open – HH:MM
  - dome: CoMP-S CM air tunnel covers OFF – 2 pieces!
  - dome: corR – diffuser out from the end switch
  - dome: pointerR - white cover of diodes OFF
  - electro-office: power for a-brake + power for instruments - switch ON
  - electro-office: HC heating - switch OFF
- **plugg IN:**
  - dome webcam (near the el. board on the wall)
  - ABSO/TARG electronics
  - AISAS electronics
  - Harting cable – both ends
  - USB cable at the CoMP-S CM
  - diode cable and 2 Hariting cables for the UJ2P

- 3 black + 1 white power cables to the isolated el. system
- HC power cable to its body

- **switch ON:**
  - ABSO/TARG electronics
  - AISAS Mechanisms electronics
  - HC main switch (hear CoMP-S FM filter wheels noise)
  - ILX electronics and start LF temperature stabilization – HH:MM TT.T
  - NI board
  - 2 ANDOR cameras
  - pre-heating of the pre-filters ON
  - PC in the office/dome

- **setttings at the coronagraph:**
  - CoMP-S radial offset – M.M
  - PA_correction + PA - AAA
  - artificial moon change

- **observer‘s PC actions:**
  - ssh user@auriga.astro.sk: wol_comp-s, wol_uj2p
  - lso_comp-s_observations_computer_setup
  - EDIT_OBS_LOG
  - reminna to PCs of CoMP-S and UJ2P

- **coronagraph towards the Sun:**
  - set declination
  - pointing toward the Sun
  - a-drive ON – HH:MM

- **DOME ROTATION:**
  - set the slit azimuth for the cors L+R+pR centered in the slit
  - xchange power cable from MANUAL to AUTO
  - dome rotation switch ON
    keep the window door of the box OPEN

- **UJ2P LV:**
  - set PA_correction + PA
  - ada

- **CoMP-S LV SCMP:**
  - initialization: set parameters
  - setup for the preferred sp. line
  - diffuser open

- **CoMP-S during observations:**
  - pre-heating of the pre-filters OFF