Logbook

• Monday 8 Oct, morning:
  – Hg primary at 77 deg C
  – Solenoid at 150 K typically
• Monday afternoon: access
  – Optics repaired
  – Mercury loop closed (without Allen screws)
  – Set point at 30 degC (primary) and 20 degC (secondary); secondary temperature sensor at downstream end (cone/outside).
• Monday evening:
  – cooling initiated to 90 K (at 10-20 % LN2 filling level)
• Tuesday 9 Oct, morning (6:30):
  – Reached 90 K
  – Mercury stabilized at 20-30 deg C
• Tuesday afternoon (14:00-14:30):
  – Nominal cooling cycle with 100% filling level and emptying

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Frontend during cryo-cycle

11am

2:30pm

2:55pm

4:10pm

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Temperature readings

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Recommendations and future actions

- **Wednesday afternoon: Mercury test drive**
  - Allen screws not fixed. Issue?
  - Front screw not in place. Issue?
- **Thursday afternoon: access ~2h**
  - Fine adjustment of optics
    - 10 minutes opening primary (all)
    - 30 minutes last adjustments for optics (HP)
    - 20 minutes closing primary (all)
    - 60 minutes putting system in nominal position (AB/ATB, transport)
  - Verify vacuum
    - how to open valve at lower solenoid?
  - Connect solenoid power
  - Assure feed-throughs without ice/water. This causes short-circuits.
  - HIPOT test
  - Cleaning of the area.

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