

# MERIT status

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CERN  
VRVS 9<sup>th</sup> Oct. 2007

# 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

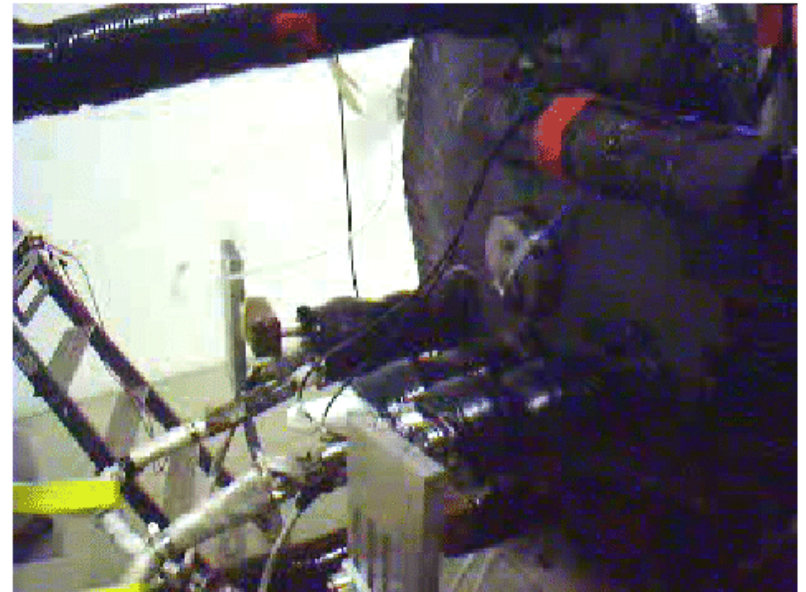
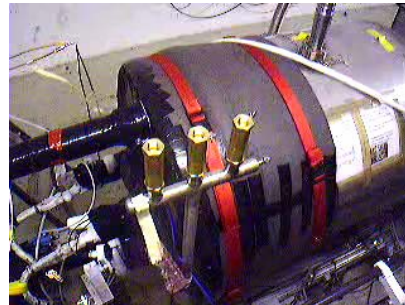
# Frontend during crvo-cycle



11am



2:30pm

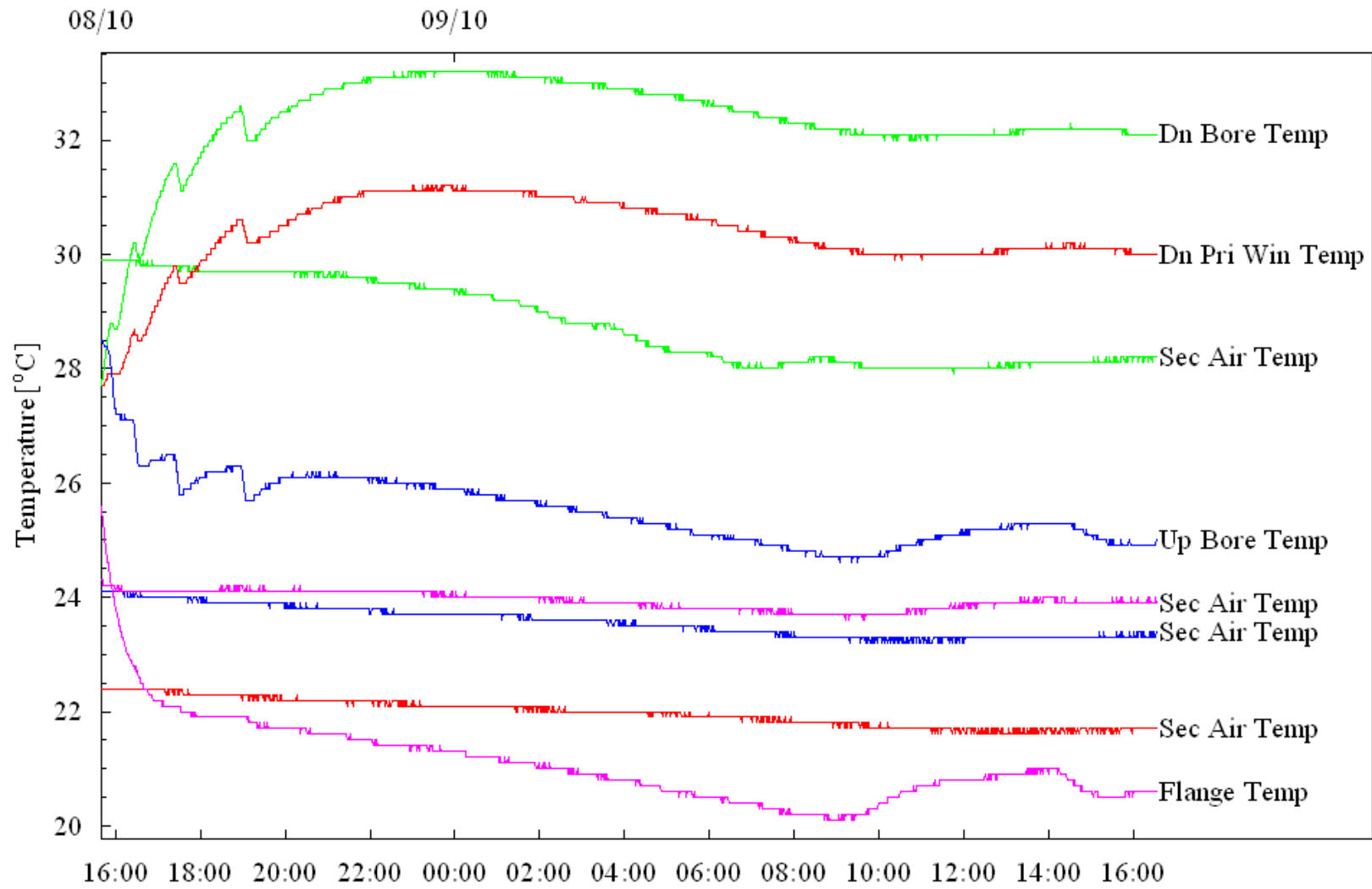


2:55pm



4:10pm

# Temperature readings



# 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.