

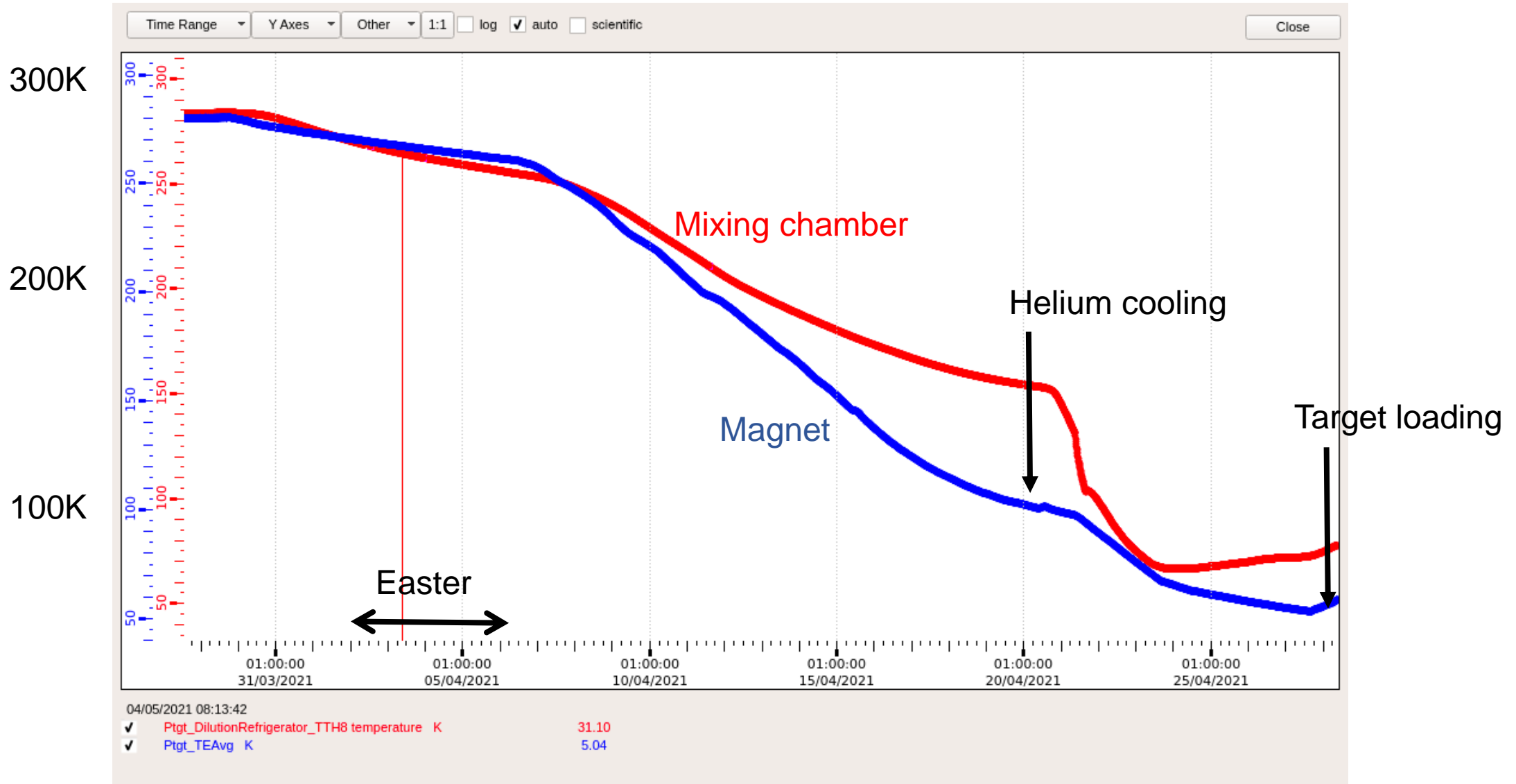
PT status

Norihiro DOSHITA

Cooling status

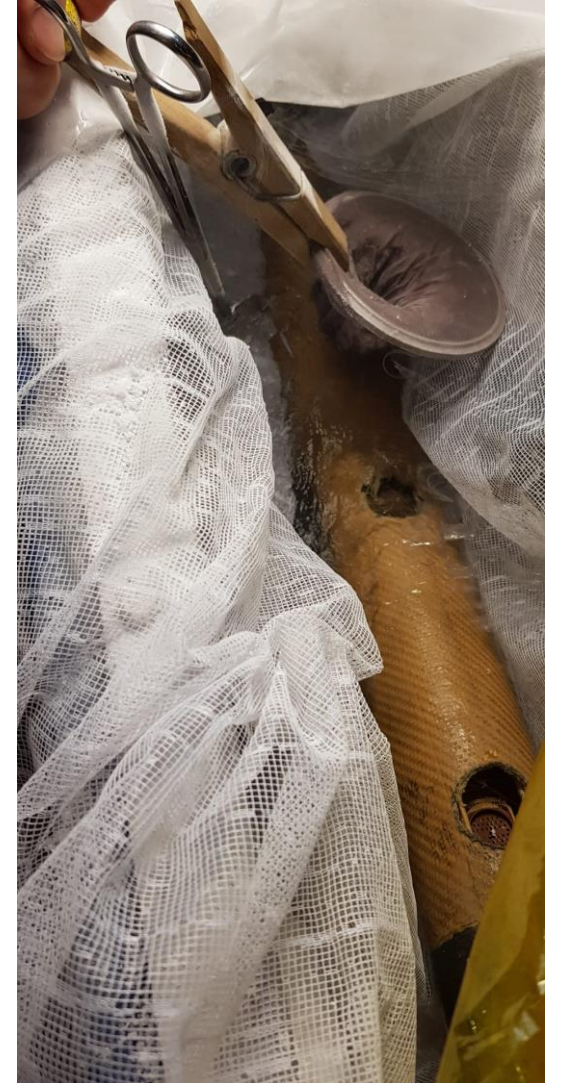
- 29/3 : Cooling
 - Magnet : Precooling with LN2
 - DR : Cold helium gas
- 20/4 : Helium cooling for magnet
- 28/4 : Target material loading
- 3/5 : Magnet 4 K

Temperature Trend



Target material loading

- Michael, Christophe, Gerhard, Stefano, Triloki, Livio, Tino(TE-CRG), Sebastian(TE-CRG), Jaakko(remote) and Nori
- Mixing chamber temperature : 80 K
- Evaporator temperature : 68 K
(Nitrogen freezing point at 1 bar : 63 K)
- 7h00 – 15h00
- Successfully finished



Preparation of TE calibration

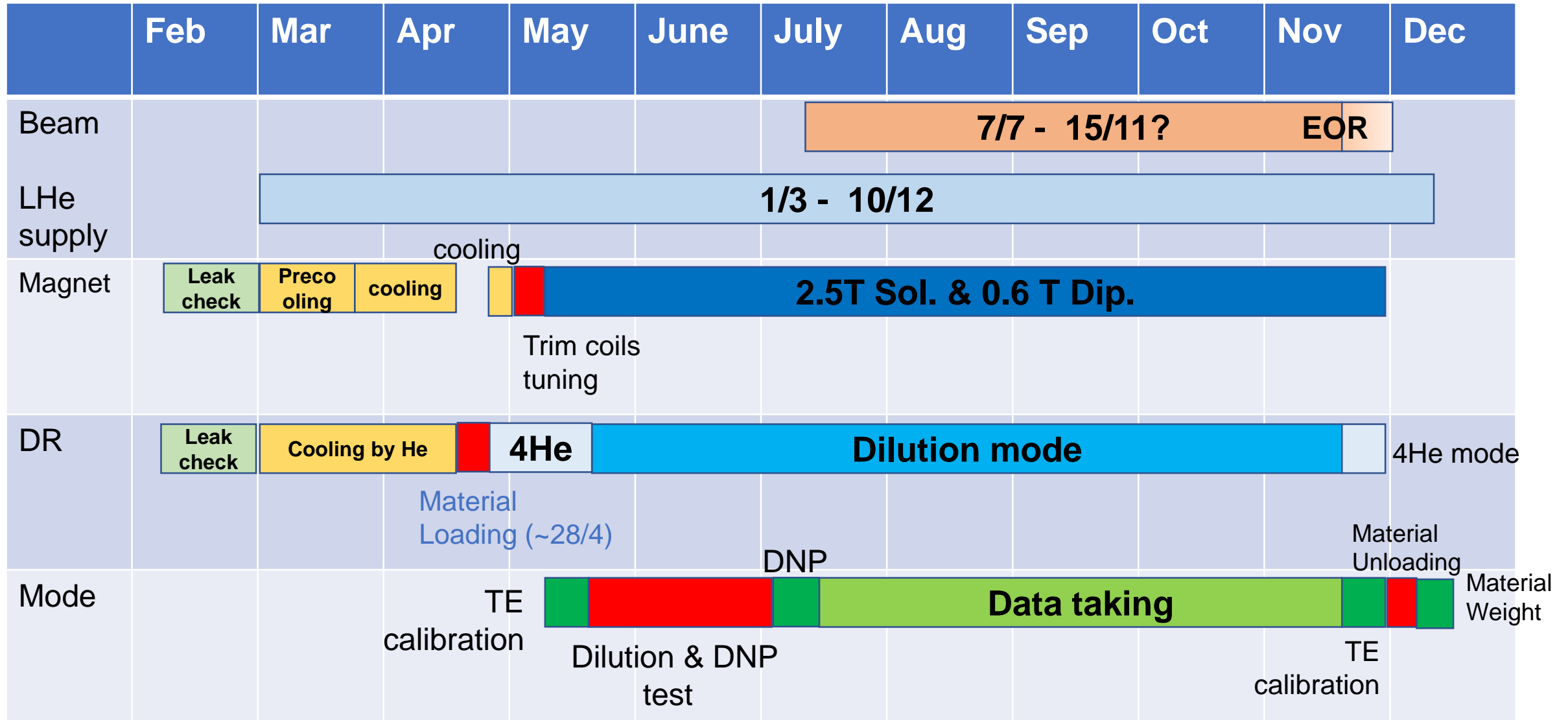
- General
 - Raw water instability
- DR
 - Access tube pressure check with He3 pumps running
 - He4 filling in mixing chamber
- Magnet
 - He filling
 - Removal of loading platform
 - Installation of air blower support
 - Trim coil tuning
- NMR
 - Q-curve tuning : OK, done by Gerhard
 - Q-curve fine tuning at 1 K

Preparation of DNP

- DR
 - He3 dilution mode
 - Installation of remote control of still heater
- Magnet
 - Field rotation
- Microwave
 - Installation of table for Gunn diode on target platform : done by Livio (30/4)
 - Installation of Gunn diode and waveguide
 - Installation of remote emergency stop switch
 - DCS-control of Gunn diode
- NMR
 - First calibration constant analysis

COMPASS PT Schedule in 2021

End of run : Oct. 6 ?



End of Run

- Recovery of He3 gas : 1 day
- Filling He4 in mixing chamber : 1 day
- TE calibration at 1.0 K : 3 days (without beam if possible)
- Removal of He4 : 1 day
- Warming up : 2 days
- Unloading material : 1 day (without beam)
 - Silicon platform removed in advanced

Shift , Remote shift

- Present situation
 - Remote check with Mattermost by Yamagata group & Jaakko
- After loading (28/4 – 30/5)
 - remote check as same as before loading
 - changing target situation day by day
 - online logbook to understand the status from outside
 - changing alarm setting
- Dry run (31/5-28/6)
 - DCS & Mattermost for remote shift
 - not only target but also gas system
 - only day shift on site (8h-16h)
 - Yamagata can keep DAQ running??
- Run(29/6?-)

Yamagata remote room

- Remote shift room at Yamagata
 - Looks difficult to send anyone to CERN now
 - Remote shift crews
 - Two students (registration as external participants)
 - One Ph.D. student, Daisuke Miura, as a collaborator
 - Takahiro Iwata, Yoshiyuki Miyachi
 - Genki (RIKEN)



Emergency button for microwave on DCS

