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

- Mixing chamber
- Helium cooling
- Magnet
- Target loading

Easter

04/05/2021 08:13:42
- Pjet_DilutionRefrigerator_TTHB temperature K: 31.10
- Pjet_TEAvg K: 5.04
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
## Manpower status

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### COMPASS PT Schedule in 2021

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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