LH2 target status

Norihiro DOSHITA
Summary of LH2 target in the last TB

- Working well with a good of isolation vacuum
  - below 5 $10^{-7}$ mbar
  - diode sensors useful
- No fast empty mode
  - avoid any shocks
  - Ecal calibrations done without any movements
May 5

Blue : Isolation vacuum
Red H2 gas pressure
Green : Return pressure
Dark brown : reservoir bottom diode
Light brown : target cell bottom diode
Pink : target cell top diode
Long term behavior
• Contacted to Jean-Marc Quetsch
• Electrical circuit diagram needed
  - The present system cannot be stopped.
• Christian Berthelie on vacation
• I will call to Christian in this week.
Stability of the system - density of LH2 since May-

[kg/m³]

May 10 | July 1 | Sep 1

0.03%
Time estimation of LH2 target dismount

- 23/10 8:00 Monday beam stop
- Warming up target : 10 hours
- Removal of H2 gas : ~3 hours
- Filling of He gas : 1 hour
- Movement of CAMERA (in the evening?)
- Disconnection of cables and pipes : 1 hour
  - Probably Tuesday morning
  - done by TE-CRG (confirmation needed)
Warming up in 2016

Compressor stopped

10 h

All liquid evaporated

Return pipe temperature

Hydrogen gas pressure

Isolation vacuum

31/08/2017 11:23:16
Target_Hydrogen_Pressure (Abs) bar 1.176884
Target_Isolation_Vacuum (Gauge 2) mbar 0.000000
Target_Return_Pipe_Temperature K 40.15
Target_Isolation_Vacuum (Gauge 1) mV 0.72

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