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| Cryomodule Meeting / Workshop – November 2013 |

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| **Agenda** |
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**Thursday November 21 @ IPNO**

Goal: Define interfaces between Cryomodules and Cryogenic Transfer Line (CTL):

1) Temperature

2) Pressure

3) Mass-flow

4) Cryo-distribution sizing

5) Control (instrumentation, PLC)

Note that the proposed schedule includes presentation and discussion on the given topic.

10:30-10:45: Goals of workshop - CD

10:45-11:45: ESS cryo-operating modes – JF

11:45-12:45: ESS infrastructures (CTL, valve box) – JF, PA, CD

* Cryogenic infrastructures
* Cryomodule handling, alignment, interfacing (to the ground, with RF distribution...) in the tunnel

13:00-14:00: Lunch

14:00-14:30: Cryomodule cryogenic design – CEA, IPNO

* Cryogenic distribution
* Valves and Instrumentation
* Interface valve box / jumper

14:30-17:00: Discussion – Open topics (among others):

* Positions of heat exchanger, cryogenic valves, vacuum barrier ;
* Temperatures, pressures and distribution lines of the CTL;
* MAWP pressure.

See the WP4/WP5 Audit Indico page at: <https://indico.in2p3.fr/conferenceDisplay.py?confId=9118>

Password: essaudit

**Friday November 22 @ CEA**

Attendees: FG, JB, DPF, CD, PB

Topics to be discussed:

* + Feed-back July 17-18th CEA meeting
  + Details on PLCs architecture
  + Definition of the ECCTD control command (EPICS, PLC, databases)
  + Definition of the ESS control command (EPICS, PLC, databases)
  + ESS Control box integration
  + Stepper motor and CTS (slow) control card
  + Interlock system and MPS
  + Tracking open issue using JIRA
  + Cabling (power supply, PLC)
  + Visit of the test stands (?)