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| Cryomodule Meeting / Workshop – November 2013  |

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| **Agenda** |
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| Meeting Date: 2013-11-21 and 22Chairpersons: CD and PB | Location: IPN Orsay and CEA |
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| Attendees: Philipp Arnold (PA), Jean Belorgey (JB), Pierre Bosland (BP), Christine Darve (CD), Guillaume Devanz (GD), Patxi Duthill (PD), Jarek Fydrych (JF), Francoise Gougnaud (FG), Gilles Olivier (GO), Daniel Piso Fernandez (DPF), Bertrand Renard (BR), Denis Reynet (DR), Jean-Pierre Thermeau (JPT), Piotr Tereszkowski (PT)**For information:**Sebastien Bousson (SB), Dave McGinnis (DmG), Steve Molloy (SM), Garry Trahern (GT) |  |

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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 (?)