

Minutes of the first HL-LHC/CRG Instrumentation meeting

Date: 17th of December 2019

INDICO: [870561](#)

List of Participants:

Johan BREMER, Krzysztof BRODZINSKI, Juan CASAS-CUBILLOS, Serge CLAUDET, Vanessa GAHIER, Antonio PERIN, Michele SISTI, Nikolaos TRIKOUPIS, Rob VAN WEELDEREN.

Excused:

Nicolas VAUTHIER

Agenda:

- 1) General introduction, *S. Claudet*
- 2) CRG-CI sensor catalogue, *J. Casas*
- 3) HL-LHC cryo-instrumentation status, *M. Sisti*

Presentation #1 – General introduction – S. Claudet

Brief introduction to the context and list of interface persons for HiLumi cryogenics.

Presentation #2 – CRG-CI sensor catalogue – J. Casas

LHC instrumentation, with focus on the various sensors and relevant qualification made for LHC.

Other characteristics than accuracy could be useful for proper definition of needs and abilities, such as: tolerance to radiation, to high-voltage, interchangeability.

ACTION #1: The instrumentation specialists will present simplified graphs or tables illustrating the existing range and achieved accuracy.

Presentation #3 – HL-LHC cryo-instrumentation status – M. Sisti

The status of definition of cryo-instrumentation for HiLumi was presented, with a strong focus on thermometers.

ACTION #2: The corresponding radiation dose for magnets and QXL should be presented at the next meeting.

AOB:

For the specific case of the current leads (HV), it is necessary to identify what type of insulation is required and where it is performed (sensors, connectors, cards).

ACTION #3: Each HL-LHC CRG interface person shall identify the instrumentation needs of its own interface equipment, both in terms of quantity and need date.

Tentative date for the next meeting is Tuesday the 28th of January 2020 at 3.30pm.

List of actions

	Owner	Due date
1. To present simplified graphs or tables illustrating the existing range and achieved accuracy.	CRG-CI specialists	Next meeting
2. To present the corresponding dose for magnets and QXL	M. Sisti IT+D1: M. Sisti 11T: R.v.Weelderen D2: A. Perin	Next meeting
3. To identify the instrumentation needs in terms of quantity and need date	Crab Cavities: K. Brodzinski Cold Powering: V. Gahier	Next meeting