

HL-LHC Magnet Circuit Instrumentation Day 2023

Report of Contributions

Contribution ID: 1

Type: **not specified**

Connecting and Integration of the Instrumentation in the DCM

Tuesday 20 June 2023 14:30 (15 minutes)

- Instrumentation scheme for the DCM;
- Wires connection, routing and testing;
- IFS flanges overview and validation;
- Documentation of DCM instrumentation.

Presenter: LECLERCQ, Yann (CERN)

Contribution ID: 2

Type: **not specified**

Introduction to the Day and Recall of the Instrumentation Review 2020 and Panel Recommendations

Tuesday 20 June 2023 08:30 (20 minutes)

Presenter: ZERLAUTH, Markus (CERN)

Contribution ID: 3

Type: **not specified**

Quench Detection Scheme and Monitoring Baseline

Tuesday 20 June 2023 09:00 (20 minutes)

- Baseline scheme for quench detection;
- QDS threshold definition and management;
- Monitoring baseline.

Presenter: STECKERT, Jens (CERN)

Contribution ID: 4

Type: **not specified**

Power Interlock Controller Loops, System Tests and Commissioning

Tuesday 20 June 2023 10:50 (20 minutes)

- Implementation of PIC loops;
- Interfaces for HL-LHC;
- Additions for HL-LHC circuits;
- System tests and commissioning of the PIC loops and interfaces.

Presenter: ANTOINE, Alain (CERN)

Contribution ID: 5

Type: **not specified**

System Test and Commissioning of QDS Instrumentation and Monitoring

Tuesday 20 June 2023 09:30 (20 minutes)

Methodology and tools for QDS Instrumentation and monitoring system tests and commissioning.

Presenter: Dr PODZORNY, Tomasz (CERN)

Contribution ID: 6

Type: **not specified**

Layouts for HL-LHC Quench Detection Instrumentation

Tuesday 20 June 2023 10:00 (20 minutes)

- Layouts for the HL-LHC quench detection instrumentation and signals.
- Overview of the instrumentation routing.

Presenter: Mr SANTIAGO FERRER, Alvaro (CERN)

Contribution ID: 7

Type: **not specified**

Cryogenic Instrumentation Scheme, System Tests and Commissioning

Tuesday 20 June 2023 11:15 (20 minutes)

- Scheme required for operation of instrumentation sensors and wiring;
- Variations of the HL-LHC IT String with respect to the tunnel baseline;
- Prior tests on sensors to be briefly mentioned;
- Interlocking methods and communication with other systems;
- Methodology and tools of system tests and commissioning of the cryogenics instrumentation.

Presenter: PEZZETTI, Marco (CERN)

Contribution ID: 8

Type: **not specified**

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Contribution ID: 9

Type: **not specified**

Insulation Vacuum Instrumentation Scheme, System Tests and Commissioning

Tuesday 20 June 2023 11:45 (20 minutes)

- Overview of the insulation vacuum and its instrumentation layout;
- Variations of the HL-LHC IT String with respect to the tunnel baseline;
- Prior tests on instrumentation to be briefly mentioned;
- Interlocking methods and communication with other systems;
- System tests and commissioning of the vacuum instrumentation.

Presenter: PEREZ ESPINOS, Jaime (CERN)

Contribution ID: **10**

Type: **not specified**

Connecting and Integration of the Instrumentation in the Magnets

Tuesday 20 June 2023 14:00 (20 minutes)

- Instrumentation sensors installation and wires connection, routing and testing;
- IFS flanges overview and validation;
- Documentation of magnet instrumentation.

Presenter: PRIN, Herve (CERN)

Contribution ID: 11

Type: **not specified**

Connection and Integration of the Instrumentation in the Cold Powering System

Tuesday 20 June 2023 14:50 (20 minutes)

- Overview of the cold powering system instrumentation scheme;
- Wires connection, routing and testing;
- IFS flanges and splitting modules overview and validation;
- Documentation of cold powering system instrumentation.

Presenters: Dr BARTH, Christian (CERN); FLEITER, Jerome (CERN)

Contribution ID: 12

Type: **not specified**

Current Leads Heating System Design, System Testing and Commissioning

Tuesday 20 June 2023 12:15 (15 minutes)

Overview of the CLHS design, system testing and commissioning.

Presenter: D'ANGELO, Giorgio (CERN)

Contribution ID: 13

Type: **not specified**

QDS Input Patch Panels

Tuesday 20 June 2023 15:55 (15 minutes)

Overview of the patch panel and its functionalities and documentation plan.

Presenter: STECKERT, Jens (CERN)

Contribution ID: 14

Type: **not specified**

Overview of the System Tests and Commissioning Plan for the HL-LHC IT String

Tuesday 20 June 2023 16:35 (20 minutes)

- Overview of the planned ISTs and HWC tests within the String Validation Program (SVP).
- Control, Analysis and Supervision Software for the HL-LHC IT String
- MP3 data treatment during HWC

Presenter: YAMMINE, Samer (CERN)

Contribution ID: 15

Type: **not specified**

Wrap-up discussion

Tuesday 20 June 2023 17:00 (30 minutes)

Presenter: PARTICIPANTS, All

Contribution ID: **16**

Type: **not specified**

IFS Box Interfaces and Documentation

Tuesday 20 June 2023 15:35 (15 minutes)

Overview of the IFS box interfaces for HL-LHC and the associated documentation.

Presenter: D'ANGELO, Giorgio (CERN)

Contribution ID: 17

Type: **not specified**

ElQA Tests for Instrumentation

Tuesday 20 June 2023 16:15 (15 minutes)

Continuity tests, dielectric tests and other tests linked to instrumentation validation.

Presenter: BEDNAREK, Mateusz Jakub (CERN)