

**12th HL-LHC Collaboration  
Meeting, Uppsala (Sweden),  
19-22 September 2022**



**Report of Contributions**

Contribution ID: 1

Type: **not specified**

# Welcome

*Monday 19 September 2022 09:00 (5 minutes)*

**Presenter:** BRENNER, Richard (Uppsala University (SE))

**Session Classification:** Plenary session 1 - Monday AM

Contribution ID: 2

Type: **not specified**

## HL-LHC project status

*Monday 19 September 2022 09:05 (20 minutes)*

**Presenter:** BRUNING, Oliver (CERN)

**Session Classification:** Plenary session 1 - Monday AM

Contribution ID: 3

Type: **not specified**

## **Status of LHC Run 3 operation and lessons learned**

*Monday 19 September 2022 09:25 (20 minutes)*

**Presenter:** BRUCE, Roderik (CERN)

**Session Classification:** Plenary session 1 - Monday AM

Contribution ID: 4

Type: **not specified**

## **Status of US-AUP contribution**

*Monday 19 September 2022 09:45 (20 minutes)*

**Presenter:** APOLLINARI, Giorgio (Fermi National Accelerator Lab. (US))

**Session Classification:** Plenary session 1 - Monday AM

Contribution ID: 5

Type: **not specified**

## **Status of WP3 with focus on MQXFB**

*Monday 19 September 2022 10:05 (30 minutes)*

**Presenter:** TODESCO, Ezio (CERN)

**Session Classification:** Plenary session 1 - Monday AM

Contribution ID: 6

Type: **not specified**

## Status of D1

*Monday 19 September 2022 11:05 (15 minutes)*

**Presenter:** NAKAMOTO, Tatsushi (KEK)

**Session Classification:** Plenary session 2 - Monday AM

Contribution ID: 7

Type: **not specified**

## Status of HO correctors

*Monday 19 September 2022 11:20 (15 minutes)*

**Presenter:** STATERA, Marco (INFN Milano - LASA)

**Session Classification:** Plenary session 2 - Monday AM



Contribution ID: **8**

Type: **not specified**

## **Status of D2 (on behalf of Barbara Caiffi)**

*Monday 19 September 2022 11:35 (20 minutes)*

**Presenter:** BERSANI, Andrea (INFN Genova (IT))

**Session Classification:** Plenary session 2 - Monday AM

Contribution ID: 9

Type: **not specified**

## **Swedish collaboration - FREIA orbit corrector magnets testing plans and DFH components production status**

*Monday 19 September 2022 11:55 (15 minutes)*

**Presenter:** OLVEGÅRD, Maja

**Session Classification:** Plenary session 2 - Monday AM

Contribution ID: **10**

Type: **not specified**

## **Status of nested correctors**

*Monday 19 September 2022 12:10 (20 minutes)*

**Presenter:** TORAL, Fernando (Centro de Investigaciones Energéticas Medioambientales y Tec. (ES))

**Session Classification:** Plenary session 2 - Monday AM

Contribution ID: 11

Type: **not specified**

## Status of CCT magnets

*Monday 19 September 2022 12:30 (15 minutes)*

**Presenter:** XU, Qingjin

**Session Classification:** Plenary session 2 - Monday AM

Contribution ID: 12

Type: **not specified**

## **Run 4 operational scenario and status of optics v1.6**

*Monday 19 September 2022 14:00 (20 minutes)*

**Presenter:** METRAL, Elias (CERN)

**Session Classification:** Plenary session 3 - Monday PM

Contribution ID: 13

Type: **not specified**

## **Status of the WP4 Crab Cavities: SPS tests & series production**

*Monday 19 September 2022 14:20 (20 minutes)*

**Presenters:** CALAGA, Rama (CERN); CAPATINA, Ofelia (CERN)

**Session Classification:** Plenary session 3 - Monday PM

Contribution ID: 14

Type: **not specified**

## **RFD Crab Cavity Contribution from the U.S.**

*Monday 19 September 2022 14:40 (20 minutes)*

**Presenter:** RATTI, Alessandro (SLAC National Accelerator Laboratory (US))

**Session Classification:** Plenary session 3 - Monday PM

Contribution ID: 15

Type: **not specified**

## Status of CC cryomodules

*Monday 19 September 2022 15:00 (20 minutes)*

**Presenter:** TEMPLETON, Niklas John (STFC Daresbury Laboratory (GB))

**Session Classification:** Plenary session 3 - Monday PM



Contribution ID: **16**

Type: **not specified**

## **Canadian contribution**

*Monday 19 September 2022 15:20 (15 minutes)*

**Presenter:** KESTER, Oliver (TRIUMF)

**Session Classification:** Plenary session 3 - Monday PM

Contribution ID: 17

Type: **not specified**

## **Summary and status for the HL-LHC collaborations (on behalf of B. Di Girolamo)**

*Monday 19 September 2022 15:35 (20 minutes)*

**Presenter:** ZERLAUTH, Markus (CERN)

**Session Classification:** Plenary session 3 - Monday PM

Contribution ID: **18**

Type: **not specified**

## **Safety for HL-LHC**

*Monday 19 September 2022 15:55 (15 minutes)*

**Presenter:** GAINANT, Christelle (CERN)

**Session Classification:** Plenary session 3 - Monday PM

Contribution ID: **19**

Type: **not specified**

## **Status and perspectives for Cryogenics**

*Monday 19 September 2022 16:40 (20 minutes)*

**Presenter:** CLAUDET, Serge (CERN)

**Session Classification:** Plenary session 4 - Monday PM

Contribution ID: **20**

Type: **not specified**

## **IT String planning and test program**

*Monday 19 September 2022 17:00 (20 minutes)*

**Presenter:** BAJKO, Marta (CERN)

**Session Classification:** Plenary session 4 - Monday PM

Contribution ID: 21

Type: **not specified**

## **HL-LHC baseline and TCC summary**

*Monday 19 September 2022 17:20 (20 minutes)*

**Presenter:** ZERLAUTH, Markus (CERN)

**Session Classification:** Plenary session 4 - Monday PM

Contribution ID: 22

Type: **not specified**

## **Procurement strategy and risk mitigation**

*Monday 19 September 2022 17:40 (20 minutes)*

**Presenter:** GARCIA GAVELA, Hector (CERN)

**Session Classification:** Plenary session 4 - Monday PM

Contribution ID: 23

Type: **not specified**

## **SM18 test facility upgrades and test plans (A. Devred, on behalf of Stephan Russenschuck)**

*Tuesday 20 September 2022 08:30 (20 minutes)*

**Presenter:** DEVRED, Arnaud (CERN)

**Session Classification:** Plenary session 5 - Tuesday AM



Contribution ID: 24

Type: **not specified**

## **Superconducting link & feedbox status and tests**

*Tuesday 20 September 2022 08:50 (20 minutes)*

**Presenter:** BALLARINO, Amalia (CERN)

**Session Classification:** Plenary session 5 - Tuesday AM

Contribution ID: 25

Type: **not specified**

## Warm powering status

*Tuesday 20 September 2022 09:10 (20 minutes)*

**Presenter:** MARTINO, Michele (CERN)

**Session Classification:** Plenary session 5 - Tuesday AM

Contribution ID: 26

Type: **not specified**

## **Towards beam screen series production**

*Tuesday 20 September 2022 09:30 (20 minutes)*

**Presenter:** GARION, Cedric (CERN)

**Session Classification:** Plenary session 5 - Tuesday AM

Contribution ID: 27

Type: **not specified**

## **Beam instrumentation status and plans**

*Tuesday 20 September 2022 09:50 (20 minutes)*

**Presenter:** VENESS, Raymond (CERN)

**Session Classification:** Plenary session 5 - Tuesday AM

Contribution ID: **28**

Type: **not specified**

## **MKI cool**

*Tuesday 20 September 2022 10:10 (20 minutes)*

**Presenter:** DIAZ ZUMEL, Miguel (CIEMAT - Centro de Investigaciones Energéticas Medioambientales y Tec. (ES))

**Session Classification:** Plenary session 5 - Tuesday AM

Contribution ID: 29

Type: **not specified**

## **Collimation: transition from LS2 to Run3 operation**

*Tuesday 20 September 2022 11:00 (20 minutes)*

**Presenter:** REDAELLI, Stefano (CERN)

**Session Classification:** Plenary session 6 - Tuesday AM

Contribution ID: **30**

Type: **not specified**

## **Radiation protection for HL-LHC**

*Tuesday 20 September 2022 11:20 (20 minutes)*

**Presenter:** INFANTINO, Angelo (CERN)

**Session Classification:** Plenary session 6 - Tuesday AM

Contribution ID: **31**

Type: **not specified**

## **HEL**

*Tuesday 20 September 2022 11:40 (20 minutes)*

**Presenter:** ROSSI, Adriana (CERN)

**Session Classification:** Plenary session 6 - Tuesday AM



Contribution ID: 32

Type: **not specified**

## Update on the 11T hybrid test program

*Tuesday 20 September 2022 12:00 (20 minutes)*

**Presenter:** DEVRED, Arnaud (CERN)

**Session Classification:** Plenary session 6 - Tuesday AM

Contribution ID: **33**

Type: **not specified**

## **Group#1**

*Tuesday 20 September 2022 14:00 (1 hour)*

**Session Classification:** Visit to FREIA

Contribution ID: 35

Type: **not specified**

## **Group#2**

*Tuesday 20 September 2022 16:00 (1 hour)*

**Session Classification:** Visit to FREIA

Contribution ID: **36**

Type: **not specified**

## **Group#3**

*Tuesday 20 September 2022 17:00 (1 hour)*

**Session Classification:** Visit to FREIA

Contribution ID: 37

Type: **not specified**

## **D1 protection and validation against prototype results**

*Tuesday 20 September 2022 14:00 (20 minutes)*

**Presenter:** SUZUKI, Kento

**Session Classification:** Tuesday PM - WP3/WP7

Contribution ID: **38**

Type: **not specified**

## **Status of MBRD project: from prototype to series (on behalf of B. Caiffi)**

*Tuesday 20 September 2022 14:20 (20 minutes)*

**Presenter:** BERSANI, Andrea (INFN Genova (IT))

**Session Classification:** Tuesday PM - WP3/WP7

Contribution ID: 39

Type: **not specified**

## **Diode stack status of integration validation**

*Tuesday 20 September 2022 14:40 (20 minutes)*

**Presenter:** D'ANGELO, Giorgio (CERN)

**Session Classification:** Tuesday PM - WP3/WP7

Contribution ID: 40

Type: **not specified**

## **ELQA scope of work and electrical design criteria**

*Tuesday 20 September 2022 15:00 (20 minutes)*

**Presenter:** BEDNAREK, Mateusz Jakub (CERN)

**Session Classification:** Tuesday PM - WP3/WP7



Contribution ID: 41

Type: **not specified**

## **IFS boxes and flanges: status & strategy**

*Tuesday 20 September 2022 15:20 (20 minutes)*

**Presenter:** D'ANGELO, Giorgio (CERN)

**Session Classification:** Tuesday PM - WP3/WP7

Contribution ID: 42

Type: **not specified**

## **TAXS Status of prototyping and next steps**

*Tuesday 20 September 2022 14:00 (20 minutes)*

**Presenter:** BOETTCHER, Oliver (CERN)

**Session Classification:** Tuesday PM - WP8/WP12

Contribution ID: 43

Type: **not specified**

## **TAXN Status of manufacturing/production plans**

*Tuesday 20 September 2022 14:20 (20 minutes)*

**Presenter:** SANCHEZ GALAN, Francisco (CERN)

**Session Classification:** Tuesday PM - WP8/WP12

Contribution ID: 44

Type: **not specified**

## **VAX prototyping, procurement, installation, alignment & operation**

*Tuesday 20 September 2022 14:40 (20 minutes)*

**Presenter:** PEREZ ESPINOS, Jaime (CERN)

**Session Classification:** Tuesday PM - WP8/WP12

Contribution ID: 45

Type: **not specified**

## **Q1-TAXS vacuum system design**

*Tuesday 20 September 2022 15:00 (20 minutes)*

**Presenter:** PEREZ ESPINOS, Jaime (CERN)

**Session Classification:** Tuesday PM - WP8/WP12

Contribution ID: 46

Type: **not specified**

## **TAS Removal & TAXS Installation scenarios**

*Tuesday 20 September 2022 15:20 (20 minutes)*

**Presenter:** ALONSO, Antonio (CERN)

**Session Classification:** Tuesday PM - WP8/WP12

Contribution ID: 47

Type: **not specified**

## **Simulations and Measurements at the Electron Beam Test Stand (EBTS) for the Hollow Electron Lens (HEL)**

*Tuesday 20 September 2022 14:00 (30 minutes)*

**Presenter:** SAMEED, Muhammed (CERN)

**Session Classification:** Tuesday PM - WP5/WP13

Contribution ID: 48

Type: **not specified**

## **Beam Gas Curtain –tests with electron beams**

*Tuesday 20 September 2022 15:00 (30 minutes)*

**Presenter:** SEDLACEK, Ondrej (University of Liverpool (UK))

**Session Classification:** Tuesday PM - WP5/WP13



Contribution ID: 49

Type: **not specified**

## **Beam Gas Curtain: design and plans**

*Tuesday 20 September 2022 14:30 (30 minutes)*

**Presenter:** SCHNEIDER, Gerhard (CERN)

**Session Classification:** Tuesday PM - WP5/WP13

Contribution ID: 50

Type: **not specified**

## **Review of latest layout version and upcoming changes**

*Tuesday 20 September 2022 14:00 (20 minutes)*

**Presenter:** DE MARIA, Riccardo (CERN)

**Session Classification:** Tuesday PM - WP2/WP5/WP10

Contribution ID: 51

Type: **not specified**

## **Collimator layout and performance**

*Tuesday 20 September 2022 14:20 (20 minutes)*

**Presenter:** LINDSTROM, Bjorn Hans Filip (CERN)

**Session Classification:** Tuesday PM - WP2/WP5/WP10

Contribution ID: 52

Type: **not specified**

## **Review of energy deposition simulations**

*Tuesday 20 September 2022 14:40 (20 minutes)*

**Presenter:** SABATE GILARTE, Marta (CERN)

**Session Classification:** Tuesday PM - WP2/WP5/WP10

Contribution ID: 53

Type: **not specified**

## **Thermo-mechanical calculations and final designs**

*Tuesday 20 September 2022 15:00 (20 minutes)*

**Presenter:** CARRA, Federico (CERN)

**Session Classification:** Tuesday PM - WP2/WP5/WP10

Contribution ID: 54

Type: **not specified**

## Test results of MCBXFB magnets

*Wednesday 21 September 2022 09:30 (20 minutes)*

**Presenter:** PEREZ, Juan Carlos (CERN)

**Session Classification:** Wednesday AM - WP3 Nb-Ti magnets

Contribution ID: 55

Type: **not specified**

## **MCBRDP4 prototype CERN production experience and test**

*Wednesday 21 September 2022 08:50 (20 minutes)*

**Presenter:** FOUSSAT, Arnaud Pascal (CERN)

**Session Classification:** Wednesday AM - WP3 Nb-Ti magnets

Contribution ID: 56

Type: **not specified**

## Highlights on status of activities in Hitachi

*Wednesday 21 September 2022 10:10 (20 minutes)*

**Presenter:** NAKAMOTO, Tatsushi (KEK)

**Session Classification:** Wednesday AM - WP3 Nb-Ti magnets



Contribution ID: 58

Type: **not specified**

## **MQXFB test results, CERN**

*Wednesday 21 September 2022 11:00 (30 minutes)*

**Presenter:** MANGIAROTTI, Franco Julio (CERN)

**Session Classification:** Wednesday AM - WP3 MQXF magnet

Contribution ID: 59

Type: **not specified**

## Vertical test results, AUP

*Wednesday 21 September 2022 11:30 (30 minutes)*

**Presenter:** BEN YAHIA, Anis

**Session Classification:** Wednesday AM - WP3 MQXF magnet

Contribution ID: **60**

Type: **not specified**

## **Coil post-mortem inspection**

*Thursday 22 September 2022 08:30 (30 minutes)*

**Presenter:** MOROS, Alice (CERN)

**Session Classification:** Thursday AM - WP3 MQXF magnet

Contribution ID: **61**

Type: **not specified**

## **DQW RF testing**

*Wednesday 21 September 2022 08:50 (20 minutes)*

**Presenter:** TURAJ, Katarzyna (CERN)

**Session Classification:** Wednesday AM - WP4

Contribution ID: **63**

Type: **not specified**

## **Industrial & CERN DQW status**

*Wednesday 21 September 2022 08:30 (20 minutes)*

**Presenter:** VALVERDE ALONSO, Nuria (CERN)

**Session Classification:** Wednesday AM - WP4

Contribution ID: **64**

Type: **not specified**

## **Zanon status for series**

*Wednesday 21 September 2022 09:10 (20 minutes)*

**Presenter:** NARDUZZI, Manuele

**Session Classification:** Wednesday AM - WP4

Contribution ID: 65

Type: **not specified**

## **DQW-HOM fabrication & status**

*Wednesday 21 September 2022 09:50 (20 minutes)*

**Presenter:** MONTESINOS, Eric (CERN)

**Session Classification:** Wednesday AM - WP4

Contribution ID: **66**

Type: **not specified**

## **RFD testing & HOM status**

*Wednesday 21 September 2022 09:30 (20 minutes)*

**Presenter:** HUQUE, Naeem Abdul

**Session Classification:** Wednesday AM - WP4



Contribution ID: 67

Type: **not specified**

## **RFD / DQW cryomodule design**

*Wednesday 21 September 2022 11:00 (20 minutes)*

**Presenter:** CAPELLI, Teddy (CERN)

**Session Classification:** Wednesday AM - WP4

Contribution ID: **68**

Type: **not specified**

## **RFD Prototype assembly lessons learned**

*Wednesday 21 September 2022 11:20 (20 minutes)*

**Presenter:** JORDAN, Edward Stephen (STFC Daresbury Laboratory (GB))

**Session Classification:** Wednesday AM - WP4

Contribution ID: **69**

Type: **not specified**

## **RFD Prototype Final Test Acceptance kit design and manufacture**

*Wednesday 21 September 2022 11:40 (20 minutes)*

**Presenter:** Dr MAY, Andrew (Science and Technology Facilities Council)

**Session Classification:** Wednesday AM - WP4

Contribution ID: 70

Type: **not specified**

## Preparations at TRIUMF & open points

*Wednesday 21 September 2022 12:00 (20 minutes)*

**Presenter:** LAXDAL, Robert Edward

**Session Classification:** Wednesday AM - WP4

Contribution ID: 71

Type: **not specified**

## **Materials testing & lessons learned**

*Wednesday 21 September 2022 12:20 (20 minutes)*

**Presenter:** GALLIFA TERRICABRAS, Adria (CERN)

**Session Classification:** Wednesday AM - WP4

Contribution ID: 72

Type: **not specified**

## Updated on HL-LHC radiation levels

*Wednesday 21 September 2022 08:30 (20 minutes)*

**Presenters:** SABATE GILARTE, Marta (CERN); LERNER, Giuseppe (CERN)

**Session Classification:** Wednesday AM - R2E & HL-LHC (WP10/WP7/WP6B/WP13/WP18)

Contribution ID: 73

Type: **not specified**

## **Update on HL-LHC R2E development and qualification**

*Wednesday 21 September 2022 08:50 (20 minutes)*

**Presenter:** CORONETTI, Andrea (CERN - University of Montpellier (FR))

**Session Classification:** Wednesday AM - R2E & HL-LHC (WP10/WP7/WP6B/WP13/WP18)

Contribution ID: 74

Type: **not specified**

## **BLM ASIC performance and future plans**

*Wednesday 21 September 2022 09:10 (20 minutes)*

**Presenter:** ZAMANTZAS, Christos (CERN)

**Session Classification:** Wednesday AM - R2E & HL-LHC (WP10/WP7/WP6B/WP13/WP18)



Contribution ID: 75

Type: **not specified**

## **QDS R2E developments for the HL-LHC era**

*Wednesday 21 September 2022 09:30 (20 minutes)*

**Presenter:** DENZ, Reiner (CERN)

**Session Classification:** Wednesday AM - R2E & HL-LHC (WP10/WP7/WP6B/WP13/WP18)

Contribution ID: 76

Type: **not specified**

## **R2E developments for PIC and BIS in HL-LHC**

*Wednesday 21 September 2022 09:50 (20 minutes)*

**Presenter:** UYTHOVEN, Jan (CERN)

**Session Classification:** Wednesday AM - R2E & HL-LHC (WP10/WP7/WP6B/WP13/WP18)

Contribution ID: 77

Type: **not specified**

## **Radiation-tolerant distributed I/O tier platform**

*Wednesday 21 September 2022 10:10 (20 minutes)*

**Presenter:** DANILUK, Greg (CERN)

**Session Classification:** Wednesday AM - R2E & HL-LHC (WP10/WP7/WP6B/WP13/WP18)

Contribution ID: 78

Type: **not specified**

## Cable irradiation activity

*Wednesday 21 September 2022 11:00 (20 minutes)*

**Presenter:** GASCON, Jose (CERN)

**Session Classification:** Wednesday AM - R2E & HL-LHC (WP10/WP7/WP6B/WP13/WP18)

Contribution ID: 79

Type: **not specified**

## **Overview and baseline changes of the HL-LHC circuits**

*Wednesday 21 September 2022 11:20 (30 minutes)*

**Presenter:** YAMMINE, Samer (CERN)

**Session Classification:** Wednesday - MCF (WP3/WP6A/WP6B/WP7/WP17.2)

Contribution ID: **81**

Type: **not specified**

## **High current warm busbars for the HL-LHC circuits – Boundary conditions and design**

*Wednesday 21 September 2022 11:50 (15 minutes)*

**Presenter:** SESHADRI, Shruti (CERN)

**Session Classification:** Wednesday - MCF (WP3/WP6A/WP6B/WP7/WP17.2)

Contribution ID: **82**

Type: **not specified**

## **DC cabling of the HL-LHC circuits and interlocking scheme**

*Wednesday 21 September 2022 12:05 (15 minutes)*

**Presenter:** BERTOLASI, Stefano (CERN)

**Session Classification:** Wednesday - MCF (WP3/WP6A/WP6B/WP7/WP17.2)

Contribution ID: 83

Type: **not specified**

## **Update on the Inner Triplet quench simulations and current in the circuit branches**

*Wednesday 21 September 2022 14:00 (20 minutes)*

**Presenter:** RAVAIOLI, Emmanuele (CERN)

**Session Classification:** Wednesday - MCF (WP3/WP6A/WP6B/WP7/WP17.2)



Contribution ID: **84**

Type: **not specified**

## **Symmetrical quench detection and QDS threshold management for HL-LHC**

*Wednesday 21 September 2022 14:20 (20 minutes)*

**Presenter:** STECKERT, Jens (CERN)

**Session Classification:** Wednesday - MCF (WP3/WP6A/WP6B/WP7/WP17.2)

Contribution ID: 85

Type: **not specified**

## **Status and results of HL-LHC MDs for collimation**

*Wednesday 21 September 2022 14:40 (20 minutes)*

**Presenter:** HERMES, Pascal (CERN)

**Session Classification:** Wednesday PM - WP5/WP7/WP14/WP2

Contribution ID: **86**

Type: **not specified**

## **New IR7 optics for improved cleaning and impedance**

*Wednesday 21 September 2022 15:00 (20 minutes)*

**Presenter:** LINDSTROM, Bjorn Hans Filip (CERN)

**Session Classification:** Wednesday PM - WP5/WP7/WP14/WP2

Contribution ID: 87

Type: **not specified**

## Tracking studies for Pb ion crystal collimation

*Wednesday 21 September 2022 15:20 (20 minutes)*

**Presenter:** CAI, Rongrong (EPFL - Ecole Polytechnique Federale Lausanne (CH))

**Session Classification:** Wednesday PM - WP5/WP7/WP14/WP2

Contribution ID: **88**

Type: **not specified**

## **Power deposition studies for crystal-assisted Pb collimation**

*Wednesday 21 September 2022 15:40 (20 minutes)*

**Presenter:** POTOINE, Jean-Baptiste (Universite Montpellier II (FR))

**Session Classification:** Wednesday PM - WP5/WP7/WP14/WP2

Contribution ID: **89**

Type: **not specified**

## **Updates on fast failure studies and impact of depleted halo on failure detection**

*Wednesday 21 September 2022 16:30 (20 minutes)*

**Presenters:** HERNALSTEENS, Cedric (CERN); WOLLMANN, Daniel (CERN)

**Session Classification:** Wednesday PM - WP5/WP7/WP14/WP2

Contribution ID: **90**

Type: **not specified**

## **Damage limits studies with sc. coil samples - experimental preparations and setup**

*Wednesday 21 September 2022 16:50 (20 minutes)*

**Presenter:** WOLLMANN, Daniel (CERN)

**Session Classification:** Wednesday PM - WP5/WP7/WP14/WP2

Contribution ID: **91**

Type: **not specified**

## **Energy deposition studies for extraction protection devices/dump**

*Wednesday 21 September 2022 17:10 (20 minutes)*

**Presenter:** FARINA, Edoardo Maria (CERN)

**Session Classification:** Wednesday PM - WP5/WP7/WP14/WP2



Contribution ID: 93

Type: **not specified**

## **Status of the cryogenics system of the HL-LHC IT String**

*Thursday 22 September 2022 10:30 (20 minutes)*

**Presenter:** PERIN, Antonio (CERN)

**Session Classification:** Thursday AM - IT String (WP16/WP1/WP3/WP6A/WP7/WP9)

Contribution ID: 94

Type: **not specified**

## Design status of WP3 splices

*Thursday 22 September 2022 10:50 (20 minutes)*

**Presenter:** PRINCIPE, Rosario (CERN)

**Session Classification:** Thursday AM - IT String (WP16/WP1/WP3/WP6A/WP7/WP9)

Contribution ID: 95

Type: **not specified**

## **ELQA tests for the HL-LHC IT String**

*Thursday 22 September 2022 11:10 (20 minutes)*

**Presenter:** BEDNAREK, Mateusz Jakub (CERN)

**Session Classification:** Thursday AM - IT String (WP16/WP1/WP3/WP6A/WP7/WP9)

Contribution ID: 96

Type: **not specified**

## **Installation strategy of the SC Link system in the HL-LHC IT String**

*Thursday 22 September 2022 11:30 (20 minutes)*

**Presenter:** CRUIKSHANK, Paul (CERN)

**Session Classification:** Thursday AM - IT String (WP16/WP1/WP3/WP6A/WP7/WP9)

Contribution ID: 97

Type: **not specified**

## **Safety considerations for the HL-LHC IT String**

*Thursday 22 September 2022 11:50 (20 minutes)*

**Presenter:** BOZZINI, Davide (CERN)

**Session Classification:** Thursday AM - IT String (WP16/WP1/WP3/WP6A/WP7/WP9)

Contribution ID: **98**

Type: **not specified**

## **Documentation plan for the HL-LHC IT String**

*Thursday 22 September 2022 12:10 (20 minutes)*

**Presenter:** HEREDIA GARCIA, Nicolas (CERN)

**Session Classification:** Thursday AM - IT String (WP16/WP1/WP3/WP6A/WP7/WP9)

Contribution ID: 99

Type: **not specified**

## **PDSU prototype and test results**

*Thursday 22 September 2022 08:40 (20 minutes)*

**Presenter:** STECKERT, Jens (CERN)

**Session Classification:** Thursday AM - WP7

Contribution ID: **100**

Type: **not specified**

## **DAQ systems for WP7**

*Thursday 22 September 2022 09:00 (20 minutes)*

**Presenter:** PODZORNY, Tomasz (CERN)

**Session Classification:** Thursday AM - WP7



Contribution ID: **101**

Type: **not specified**

## **CLIQ - experience from prototype production & fabrication status**

*Thursday 22 September 2022 09:20 (20 minutes)*

**Presenter:** CARRILLO, David (CERN)

**Session Classification:** Thursday AM - WP7

Contribution ID: **102**

Type: **not specified**

## **Energy Extraction Systems: Status of IT String fabrication & control electronics development**

*Thursday 22 September 2022 09:40 (20 minutes)*

**Presenter:** PANEV, Bozhidar Ivanov (CERN)

**Session Classification:** Thursday AM - WP7

Contribution ID: **103**

Type: **not specified**

## **Current lead heaters and IFSs**

*Thursday 22 September 2022 14:30 (20 minutes)*

**Presenter:** D'ANGELO, Giorgio (CERN)

**Session Classification:** Thursday PM - WP6A/WP7

Contribution ID: **104**

Type: **not specified**

## **Deliverables for SC Link protection & current lead heater controls**

*Thursday 22 September 2022 14:50 (20 minutes)*

**Presenter:** STECKERT, Jens (CERN)

**Session Classification:** Thursday PM - WP6A/WP7

Contribution ID: **105**

Type: **not specified**

## **ELQA scope of work for SC links**

*Thursday 22 September 2022 15:10 (20 minutes)*

**Presenter:** BEDNAREK, Mateusz Jakub (CERN)

**Session Classification:** Thursday PM - WP6A/WP7

Contribution ID: **107**

Type: **not specified**

## **SPS-DQW cryomodule tests, experience & next steps**

*Wednesday 21 September 2022 14:00 (20 minutes)*

**Presenter:** CALAGA, Rama (CERN)

**Session Classification:** Wednesday PM - WP4/WP9/WP12/WP15.4

Contribution ID: **108**

Type: **not specified**

## **RFD-CM reception at CERN & acceptance tests**

*Wednesday 21 September 2022 14:20 (15 minutes)*

**Presenter:** TURAJ, Katarzyna (CERN)

**Session Classification:** Wednesday PM - WP4/WP9/WP12/WP15.4

Contribution ID: **109**

Type: **not specified**

## **Vacuum status for RFD-SPS & series**

*Wednesday 21 September 2022 14:35 (15 minutes)*

**Presenter:** PASQUINO, Chiara (CERN)

**Session Classification:** Wednesday PM - WP4/WP9/WP12/WP15.4



Contribution ID: **110**

Type: **not specified**

## **Cryogenic status SM18, SPS & HL-LHC & challenges/open points**

*Wednesday 21 September 2022 14:50 (15 minutes)*

**Presenter:** BRODZINSKI, Krzysztof (CERN)

**Session Classification:** Wednesday PM - WP4/WP9/WP12/WP15.4

Contribution ID: **111**

Type: **not specified**

## **Cryomodule collaboration & lessons learned**

*Wednesday 21 September 2022 15:05 (15 minutes)*

**Presenter:** GARLASCHE, Marco (CERN)

**Session Classification:** Wednesday PM - WP4/WP9/WP12/WP15.4

Contribution ID: **112**

Type: **not specified**

## Alignment

*Wednesday 21 September 2022 15:20 (15 minutes)*

**Presenter:** RUDE, Vivien (CERN)

**Session Classification:** Wednesday PM - WP4/WP9/WP12/WP15.4

Contribution ID: **113**

Type: **not specified**

## **QA & QC for WP4**

*Wednesday 21 September 2022 15:35 (20 minutes)*

**Presenter:** GARCIA GAVELA, Hector (CERN)

**Session Classification:** Wednesday PM - WP4/WP9/WP12/WP15.4

Contribution ID: 115

Type: **not specified**

## Crab cavity emittance growth MDs

*Thursday 22 September 2022 08:40 (20 minutes)*

**Presenter:** TRIANTAFYLLOU, Natalia (University of Liverpool (GB))

**Session Classification:** Thursday AM - WP2/WP4/WP5/WP13

Contribution ID: **116**

Type: **not specified**

## **LHC electron cloud studies**

*Thursday 22 September 2022 09:00 (20 minutes)*

**Presenter:** PARASCHOU, Konstantinos (CERN)

**Session Classification:** Thursday AM - WP2/WP4/WP5/WP13

Contribution ID: **117**

Type: **not specified**

## **LHC RF studies**

*Thursday 22 September 2022 09:20 (20 minutes)*

**Presenter:** KARLSEN-BAECK, Birk Emil (Norwegian University of Science and Technology (NTNU) (NO))

**Session Classification:** Thursday AM - WP2/WP4/WP5/WP13

Contribution ID: **118**

Type: **not specified**

## **Impedance measurements, LHC-MDs**

*Thursday 22 September 2022 09:40 (20 minutes)*

**Presenter:** GIACOMEL, Lorenzo (CERN)

**Session Classification:** Thursday AM - WP2/WP4/WP5/WP13



Contribution ID: **119**

Type: **not specified**

## **Beam-beam & Noise studies**

*Thursday 22 September 2022 10:30 (20 minutes)*

**Presenter:** STERBINI, Guido (CERN)

**Session Classification:** Thursday AM - WP2/WP4/WP5/WP13

Contribution ID: **120**

Type: **not specified**

## **Optics measurements & outlook**

*Thursday 22 September 2022 14:40 (25 minutes)*

**Presenter:** MACLEAN, Ewen Hamish (CERN)

**Session Classification:** Thursday PM - WP2/WP4/WP5/WP13

Contribution ID: **121**

Type: **not specified**

## **EO BPM studies & PU for CC diagnostics**

*Thursday 22 September 2022 10:50 (20 minutes)*

**Presenter:** LEVENS, Tom (CERN)

**Session Classification:** Thursday AM - WP2/WP4/WP5/WP13

Contribution ID: 122

Type: **not specified**

## Tests of the new IT BPM read-out system at LHC

*Thursday 22 September 2022 11:10 (20 minutes)*

**Presenter:** BETT, Douglas Robert (University of Oxford (GB))

**Session Classification:** Thursday AM - WP2/WP4/WP5/WP13

Contribution ID: 123

Type: **not specified**

## HL-LHC longitudinal stability

*Thursday 22 September 2022 11:30 (20 minutes)*

**Presenter:** KARPOV, Ivan (CERN)

**Session Classification:** Thursday AM - WP2/WP4/WP5/WP13

Contribution ID: 124

Type: **not specified**

## Status of BSRT and coronagraph

*Thursday 22 September 2022 11:50 (20 minutes)*

**Presenter:** BRAVIN, Enrico (CERN)

**Session Classification:** Thursday AM - WP2/WP4/WP5/WP13

Contribution ID: 125

Type: **not specified**

## **Status of fluorescence tests with protons in the LHC**

*Thursday 22 September 2022 14:00 (20 minutes)*

**Presenter:** SEDLACEK, Ondrej (University of Liverpool (UK))

**Session Classification:** Thursday PM - WP2/WP4/WP5/WP13

Contribution ID: 126

Type: **not specified**

## **Status of the Beam Gas Vertex detector study**

*Thursday 22 September 2022 14:20 (20 minutes)*

**Presenter:** KOLBINGER, Bernadette (CERN)

**Session Classification:** Thursday PM - WP2/WP4/WP5/WP13



Contribution ID: 127

Type: **not specified**

## Assessing MQXF conductor limits

*Thursday 22 September 2022 09:00 (30 minutes)*

**Presenter:** BALLARINO, Amalia (CERN)

**Session Classification:** Thursday AM - WP3 MQXF magnet

Contribution ID: **128**

Type: **not specified**

## **Pre-load experiment in MQXFS**

*Thursday 22 September 2022 09:30 (30 minutes)*

**Presenter:** IZQUIERDO BERMUDEZ, Susana (CERN)

**Session Classification:** Thursday AM - WP3 MQXF magnet

Contribution ID: **129**

Type: **not specified**

## **Improvements in MQXFB coil fabrication**

*Thursday 22 September 2022 10:30 (30 minutes)*

**Presenter:** LUSA, Nicholas (CERN)

**Session Classification:** Thursday AM - WP3 MQXF magnet

Contribution ID: 130

Type: **not specified**

## **MQXFA magnet assembly: lessons learnt from MQXFA07/08**

*Wednesday 21 September 2022 12:00 (30 minutes)*

**Presenters:** FERRACIN, Paolo (CERN); FERRACIN, Paolo

**Session Classification:** Wednesday AM - WP3 MQXF magnet

Contribution ID: 131

Type: **not specified**

## **MQXFB magnet assembly, including actions to limit peak stress**

*Thursday 22 September 2022 11:00 (20 minutes)*

**Presenter:** FERRADAS TROITINO, Jose (CERN)

**Session Classification:** Thursday AM - WP3 MQXF cold mass

Contribution ID: 133

Type: **not specified**

## **Cold mass and cryostat assembly AUP**

*Thursday 22 September 2022 11:20 (30 minutes)*

**Presenter:** VOURIS, Antonios

**Session Classification:** Thursday AM - WP3 MQXF cold mass

Contribution ID: 134

Type: **not specified**

## Cold mass assembly at CERN

*Thursday 22 September 2022 11:50 (20 minutes)*

**Presenter:** PRIN, Herve (CERN)

**Session Classification:** Thursday AM - WP3 MQXF cold mass

Contribution ID: 135

Type: **not specified**

## **Cryostat assembly at CERN**

*Thursday 22 September 2022 12:10 (20 minutes)*

**Presenter:** DUARTE RAMOS, Delio (CERN)

**Session Classification:** Thursday AM - WP3 MQXF cold mass



Contribution ID: **136**

Type: **not specified**

## Discussion

*Thursday 22 September 2022 14:00 (1h 30m)*

**Session Classification:** Thursday PM - WP4

Contribution ID: 137

Type: **not specified**

## **Current performance and the ongoing luminosity upgrade of CERN's Large Hadron Collider**

*Thursday 22 September 2022 10:15 (35 minutes)*

**Presenter:** BRUNING, Oliver (CERN)

**Session Classification:** Colloquium for Swedish students and researchers

Contribution ID: **138**

Type: **not specified**

## **Highlights on status of activities in BAMA**

*Wednesday 21 September 2022 09:10 (20 minutes)*

**Presenter:** WANG, Yingzhe

**Session Classification:** Wednesday AM - WP3 Nb-Ti magnets

Contribution ID: **139**

Type: **not specified**

## Highlights on status in Elytt

*Wednesday 21 September 2022 09:50 (20 minutes)*

**Presenters:** TORAL, Fernando (Centro de Investigaciones Energéticas Medioambientales y Tec. (ES)); MARTINS JARDIM, Carla (Centro de Investigaciones Energéticas, MedioAmbientales y Tecnológicas)

**Session Classification:** Wednesday AM - WP3 Nb-Ti magnets

Contribution ID: 140

Type: **not specified**

## **Summary, Status and requests for sorting strategies in HL-LHC**

*Wednesday 21 September 2022 16:30 (30 minutes)*

**Presenter:** TODESCO, Ezio (CERN)

**Session Classification:** Wednesday PM - WP2/WP3

Contribution ID: **141**

Type: **not specified**

## **Status of DA with expected field quality**

*Wednesday 21 September 2022 17:30 (30 minutes)*

**Presenter:** MACLEAN, Ewen Hamish (CERN)

**Session Classification:** Wednesday PM - WP2/WP3

Contribution ID: 142

Type: **not specified**

## Evolution of magnetic field quality

*Wednesday 21 September 2022 17:00 (30 minutes)*

**Presenter:** TODESCO, Ezio (CERN)

**Session Classification:** Wednesday PM - WP2/WP3

Contribution ID: 143

Type: **not specified**

## **Polarity control of the HL-LHC circuits**

*Wednesday 21 September 2022 12:20 (15 minutes)*

**Presenter:** POJER, Mirko (CERN)

**Session Classification:** Wednesday - MCF (WP3/WP6A/WP6B/WP7/WP17.2)



Contribution ID: 144

Type: **not specified**

## **Higgs boson measurements in the current and future runs of CERN's Large Hadron Collider**

*Thursday 22 September 2022 11:15 (35 minutes)*

**Presenter:** FERRARI, Arnaud (Uppsala University (SE))

**Session Classification:** Colloquium for Swedish students and researchers

Contribution ID: 145

Type: **not specified**

## **Overview of WP6A electrical requirements and instrumentation**

*Thursday 22 September 2022 14:00 (30 minutes)*

**Presenter:** FLEITER, Jerome (CERN)

**Session Classification:** Thursday PM - WP6A/WP7

Contribution ID: 146

Type: **not specified**

## **Bunch-by-bunch variations in LHC 2022**

*Tuesday 20 September 2022 15:20 (30 minutes)*

**Presenters:** EFTHYMIPOULOS, Ilias (CERN); EFTHYMIPOULOS, Ilias (CERN)

**Session Classification:** Tuesday PM - WP2/WP5/WP10