

**13th HL-LHC Collaboration
Meeting, Vancouver (Canada),
25-28 September 2023**



Report of Contributions

Contribution ID: 1

Type: **not specified**

Visit of TRIUMF

Tuesday, 26 September 2023 09:00 (1h 30m)

Contribution ID: 2

Type: **not specified**

Welcome

Monday, 25 September 2023 09:00 (5 minutes)

Session Classification: Plenary session 1 - Monday AM

Contribution ID: 3

Type: **not specified**

HL-LHC Project status

Monday, 25 September 2023 09:05 (20 minutes)

Presenter: BRUNING, Oliver (CERN)

Session Classification: Plenary session 1 - Monday AM

Contribution ID: 4

Type: **not specified**

LHC Run 3 - status and outlook

Monday, 25 September 2023 09:25 (20 minutes)

Presenter: LAMONT, Mike (CERN)

Session Classification: Plenary session 1 - Monday AM

Contribution ID: 5

Type: **not specified**

Status of US-AUP contribution

Monday, 25 September 2023 09:45 (20 minutes)

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

Session Classification: Plenary session 1 - Monday AM

Contribution ID: 6

Type: **not specified**

Status of WP3 with focus on MQXFB

Monday, 25 September 2023 10:05 (30 minutes)

Presenter: IZQUIERDO BERMUDEZ, Susana (CERN)

Session Classification: Plenary session 1 - Monday AM

Contribution ID: 7

Type: **not specified**

Overview of TRIUMF facilities

Monday, 25 September 2023 10:35 (15 minutes)

Presenter: KESTER, Oliver (TRIUMF)

Session Classification: Plenary session 1 - Monday AM

Contribution ID: **8**

Type: **not specified**

Status of MQXFA

Monday, 25 September 2023 11:20 (20 minutes)

Presenter: AMBROSIO, Giorgio (Fermilab)

Session Classification: Plenary session 2 - Monday AM

Contribution ID: 9

Type: **not specified**

Status of D1

Monday, 25 September 2023 11:40 (20 minutes)

Presenter: NAKAMOTO, Tatsushi (KEK)

Session Classification: Plenary session 2 - Monday AM

Contribution ID: **10**

Type: **not specified**

Status of D2

Monday, 25 September 2023 12:00 (20 minutes)

Presenters: PAMPALONI, Alessandra; PAMPALONI, Alessandra

Session Classification: Plenary session 2 - Monday AM

Contribution ID: 11

Type: **not specified**

Status for nested correctors

Monday, 25 September 2023 12:20 (20 minutes)

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

Session Classification: Plenary session 2 - Monday AM

Contribution ID: 12

Type: **not specified**

Status of CCT correctors (E. Todesco on behalf of Q. Xu)

Monday, 25 September 2023 12:40 (20 minutes)

Presenter: TODESCO, Ezio (CERN)

Session Classification: Plenary session 2 - Monday AM

Contribution ID: 13

Type: **not specified**

Run 4 operational scenario

Monday, 25 September 2023 14:00 (20 minutes)

Presenter: TOMAS GARCIA, Rogelio (CERN)

Session Classification: Plenary session 1 - Monday PM

Contribution ID: 14

Type: **not specified**

Status of WP4 crab cavities and RF

Monday, 25 September 2023 14:20 (25 minutes)

Presenter: CALAGA, Rama (CERN)

Session Classification: Plenary session 1 - Monday PM

Contribution ID: 15

Type: **not specified**

US-AUP contribution and Zanon contract

Monday, 25 September 2023 14:45 (25 minutes)

Presenters: RISTORI, Leonardo (Fermilab); RISTORI, Leonardo (Fermilab)

Session Classification: Plenary session 1 - Monday PM

Contribution ID: **16**

Type: **not specified**

Status of CC cryomodules

Tuesday, 26 September 2023 11:30 (20 minutes)

Presenters: TEMPLETON, Niklas John (STFC Daresbury Laboratory (GB)); TEMPLETON, Niklas

Session Classification: Plenary session - Tuesday AM

Contribution ID: 17

Type: **not specified**

Status of Canadian Contribution to WP4

Monday, 25 September 2023 15:10 (20 minutes)

Presenter: LAXDAL, Robert Edward

Session Classification: Plenary session 1 - Monday PM

Contribution ID: **18**

Type: **not specified**

Summary and status for the HL-LHC Collaborations

Monday, 25 September 2023 16:20 (20 minutes)

Presenter: JENSEN, Lars (CERN)

Session Classification: Plenary session 2 - Monday PM

Contribution ID: **19**

Type: **not specified**

IT String planning and installation status

Monday, 25 September 2023 16:40 (25 minutes)

Presenter: BAJKO, Marta (CERN)

Session Classification: Plenary session 2 - Monday PM

Contribution ID: 20

Type: **not specified**

SM18 test facility and test plans

Monday, 25 September 2023 17:05 (25 minutes)

Presenter: DEVRED, Arnaud (CERN)

Session Classification: Plenary session 2 - Monday PM

Contribution ID: 21

Type: **not specified**

HL and LS3 installation plans

Monday, 25 September 2023 17:30 (20 minutes)

Presenter: MODENA, Michele (CERN)

Session Classification: Plenary session 2 - Monday PM

Contribution ID: 22

Type: **not specified**

HL-LHC Baseline and TCC summary

Monday, 25 September 2023 15:30 (20 minutes)

Presenter: ZERLAUTH, Markus (CERN)

Session Classification: Plenary session 1 - Monday PM

Contribution ID: 23

Type: **not specified**

Procurement strategy and quality reporting

Tuesday, 26 September 2023 11:50 (20 minutes)

Presenter: GARCIA GAVELA, Hector (CERN)

Session Classification: Plenary session - Tuesday AM

Contribution ID: 24

Type: **not specified**

Electron cloud: potential mitigation strategies and plans for interventions during LS3

Tuesday, 26 September 2023 12:10 (20 minutes)

Presenter: BAGLIN, Vincent (CERN)

Session Classification: Plenary session - Tuesday AM

Contribution ID: 25

Type: **not specified**

First year of operation of the MKI-cool

Tuesday, 26 September 2023 12:30 (20 minutes)

Presenter: BARNES, Mike (CERN)

Session Classification: Plenary session - Tuesday AM

Contribution ID: 26

Type: **not specified**

Machine Protection status and plans

Tuesday, 26 September 2023 14:00 (20 minutes)

Presenter: WOLLMANN, Daniel (CERN)

Session Classification: Plenary session - Tuesday PM

Contribution ID: 27

Type: **not specified**

Status of WP6A, industrialization and tests

Tuesday, 26 September 2023 14:20 (20 minutes)

Presenter: BALLARINO, Amalia (CERN)

Session Classification: Plenary session - Tuesday PM

Contribution ID: **28**

Type: **not specified**

Collimation status

Tuesday, 26 September 2023 14:40 (20 minutes)

Presenter: REDAELLI, Stefano (CERN)

Session Classification: Plenary session - Tuesday PM

Contribution ID: 29

Type: **not specified**

Beam instrumentation status and plans

Tuesday, 26 September 2023 15:00 (20 minutes)

Presenter: VENESS, Raymond (CERN)

Session Classification: Plenary session - Tuesday PM

Contribution ID: **30**

Type: **not specified**

Close-out

Thursday, 28 September 2023 12:00 (30 minutes)

Presenter: BRUNING, Oliver (CERN)

Session Classification: Collaboration Meeting Close-out

Contribution ID: **31**

Type: **not specified**

Experience with UQDS and EDAQ in the SM18 test benches and plans

Tuesday, 26 September 2023 15:50 (25 minutes)

Presenter: STECKERT, Jens (CERN)

Session Classification: Tuesday PM - WP3/WP7/WP6A/WP16

Contribution ID: 32

Type: **not specified**

Experience with new Energy Extraction Systems and CLIQ in the SM18 test benches and plans

Tuesday, 26 September 2023 16:15 (25 minutes)

Presenter: POJER, Mirko (CERN)

Session Classification: Tuesday PM - WP3/WP7/WP6A/WP16

Contribution ID: **33**

Type: **not specified**

RFD cryomodule build for SPS test

Tuesday, 26 September 2023 15:50 (30 minutes)

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

Session Classification: Tuesday PM - WP4

Contribution ID: **34**

Type: **not specified**

CERN contributions (RFD-CM for SPS tests)

Tuesday, 26 September 2023 16:20 (30 minutes)

Presenters: GARLASCHE, Marco (CERN); BARRIÈRE, Simon (CERN)

Session Classification: Tuesday PM - WP4

Contribution ID: 35

Type: **not specified**

SM18 validation of RFD Prototype for SPS tests

Tuesday, 26 September 2023 17:20 (25 minutes)

Presenter: TURAJ, Katarzyna (CERN)

Session Classification: Tuesday PM - WP4

Contribution ID: 36

Type: **not specified**

RFD industrial cavity production (Leornado Ristori for Manuele Narduzzi)

Wednesday, 27 September 2023 08:30 (30 minutes)

Presenters: RISTORI, Leonardo (Fermilab); RISTORI, Leonardo (Fermilab); NARDUZZI, Manuele

Session Classification: Wednesday AM - WP4 part 1

Contribution ID: 37

Type: **not specified**

US-AUP RFD testing

Wednesday, 27 September 2023 09:00 (20 minutes)

Presenter: CASTILLA LOEZA, Alejandro (Lancaster University (GB))

Session Classification: Wednesday AM - WP4 part 1

Contribution ID: **38**

Type: **not specified**

DQW industrial cavity production

Wednesday, 27 September 2023 09:20 (20 minutes)

Presenter: VALVERDE ALONSO, Nuria (CERN)

Session Classification: Wednesday AM - WP4 part 1

Contribution ID: 39

Type: **not specified**

DQW CERN cavity tests

Wednesday, 27 September 2023 09:40 (20 minutes)

Presenter: TURAJ, Katarzyna (CERN)

Session Classification: Wednesday AM - WP4 part 1

Contribution ID: 40

Type: **not specified**

RFD HOM coupler challenges

Wednesday, 27 September 2023 11:00 (20 minutes)

Presenters: HUQUE, Naeem Abdul; HUQUE, Naeem

Session Classification: Wednesday AM - WP4 part 2

Contribution ID: 41

Type: **not specified**

DQW HOM couplers challenges & FPC

Wednesday, 27 September 2023 11:20 (20 minutes)

Presenter: BARRIÈRE, Simon (CERN)

Session Classification: Wednesday AM - WP4 part 2

Contribution ID: 42

Type: **not specified**

RF power, IOTs & challenges

Wednesday, 27 September 2023 17:00 (20 minutes)

Presenter: MONTESINOS, Eric (CERN)

Session Classification: Wednesday PM - WP4 part 2

Contribution ID: 44

Type: **not specified**

Series cryomodule design

Wednesday, 27 September 2023 14:00 (30 minutes)

Presenter: CAPELLI, Teddy (CERN)

Session Classification: Wednesday PM - WP4 part 1

Contribution ID: 45

Type: **not specified**

Status report on alignment on RFD prototype : Crab-cavities (Collaboration : STFC / CERN)

Wednesday, 27 September 2023 14:30 (20 minutes)

Presenter: RUDE, Vivien (CERN)

Session Classification: Wednesday PM - WP4 part 1

Contribution ID: 46

Type: **not specified**

CC cryogenics and status

Wednesday, 27 September 2023 15:10 (20 minutes)

Presenter: GAHIER, Vanessa (CERN)

Session Classification: Wednesday PM - WP4 part 1

Contribution ID: 47

Type: **not specified**

Vacuum aspects & procurement status

Wednesday, 27 September 2023 14:50 (20 minutes)

Presenters: BAGLIN, Vincent (CERN); PASQUINO, Chiara (CERN)

Session Classification: Wednesday PM - WP4 part 1

Contribution ID: 48

Type: **not specified**

UK CM-series challenges, schedule & discussions

Wednesday, 27 September 2023 16:40 (20 minutes)

Presenters: TEMPLETON, Niklas John (STFC Daresbury Laboratory (GB)); TEMPLETON, Niklas

Session Classification: Wednesday PM - WP4 part 2

Contribution ID: 50

Type: **not specified**

RFD engineering issues –Interpreting European standards for North America manufacture

Wednesday, 27 September 2023 16:20 (20 minutes)

Presenter: LAW, Oliver (TRIUMF)

Session Classification: Wednesday PM - WP4 part 2

Contribution ID: 51

Type: **not specified**

Full Remote Alignment System (FRAS) status and plans

Wednesday, 27 September 2023 16:00 (18 minutes)

Presenter: MAINAUD DURAND, Helene (CERN)

Session Classification: Wednesday PM - WP2/WP3/WP5/WP10/WP15

Contribution ID: 52

Type: **not specified**

Status report on internal monitoring on Q3 (Collaboration: FNAL / CERN)

Wednesday, 27 September 2023 16:18 (18 minutes)

Presenter: RUDE, Vivien (CERN)

Session Classification: Wednesday PM - WP2/WP3/WP5/WP10/WP15

Contribution ID: 53

Type: **not specified**

e-cloud status

Wednesday, 27 September 2023 16:36 (18 minutes)

Presenter: METHER, Lotta (CERN)

Session Classification: Wednesday PM - WP2/WP3/WP5/WP10/WP15

Contribution ID: 54

Type: **not specified**

DA and beam-beam

Wednesday, 27 September 2023 16:54 (18 minutes)

Presenter: STERBINI, Guido (CERN)

Session Classification: Wednesday PM - WP2/WP3/WP5/WP10/WP15

Contribution ID: 55

Type: **not specified**

Transverse impedance and stability

Wednesday, 27 September 2023 17:12 (18 minutes)

Presenter: MOUNET, Nicolas (CERN)

Session Classification: Wednesday PM - WP2/WP3/WP5/WP10/WP15

Contribution ID: 56

Type: **not specified**

LHC longitudinal studies (remote talk)

Thursday, 28 September 2023 08:30 (30 minutes)

Presenter: TIMKO, Helga (CERN)

Session Classification: Thursday AM - WP2/WP4/WP13 part 1

Contribution ID: 57

Type: **not specified**

SPS-CC instability studies (remote talk)

Thursday, 28 September 2023 09:30 (30 minutes)

Presenter: GIACOMEL, Lorenzo (CERN)

Session Classification: Thursday AM - WP2/WP4/WP13 part 1

Contribution ID: 58

Type: **not specified**

SPS-CC high intensity, RF measurements

Thursday, 28 September 2023 10:00 (30 minutes)

Presenter: CALAGA, Rama (CERN)

Session Classification: Thursday AM - WP2/WP4/WP13 part 1

Contribution ID: **61**

Type: **not specified**

HT measurements & outlook for HL-LHC (remote talk)

Thursday, 28 September 2023 11:00 (15 minutes)

Presenter: LEVENS, Tom (CERN)

Session Classification: Thursday AM - WP2/WP4/WP13 part 2

Contribution ID: 62

Type: **not specified**

CC pick-up (BPTQR) status and plans

Thursday, 28 September 2023 11:15 (30 minutes)

Presenter: KRUPA, Michal (CERN)

Session Classification: Thursday AM - WP2/WP4/WP13 part 2

Contribution ID: **63**

Type: **not specified**

Machine protection studies

Thursday, 28 September 2023 09:00 (30 minutes)

Presenter: WOLLMANN, Daniel (CERN)

Session Classification: Thursday AM - WP2/WP4/WP13 part 1

Contribution ID: **64**

Type: **not specified**

Status of D1 construction and tests

Wednesday, 27 September 2023 14:00 (35 minutes)

Presenter: NAKAMOTO, Tatsushi (KEK)

Session Classification: Wednesday PM - WP3 Nb-Ti magnets

Contribution ID: 65

Type: **not specified**

Status of CCT corrector construction and test (remote talk)

Wednesday, 27 September 2023 14:35 (35 minutes)

Presenter: WANG, Yingzhe

Session Classification: Wednesday PM - WP3 Nb-Ti magnets

Contribution ID: **66**

Type: **not specified**

HL-LHC MCBRD production status at CERN

Wednesday, 27 September 2023 15:10 (20 minutes)

Presenter: FOUSSAT, Arnaud Pascal (CERN)

Session Classification: Wednesday PM - WP3 Nb-Ti magnets

Contribution ID: 67

Type: **not specified**

Magnet installation and interconnection into the HL LHC IT String

Tuesday, 26 September 2023 16:40 (25 minutes)

Presenter: LE NAOUR, Sandrine (CERN)

Session Classification: Tuesday PM - WP3/WP7/WP6A/WP16

Contribution ID: **68**

Type: **not specified**

BBLR compensation in Run 3: bunch-by-bunch losses and wire operation

Wednesday, 27 September 2023 14:00 (30 minutes)

Presenter: BELANGER, Philippe (TRIUMF (CA))

Session Classification: Wednesday PM - WP2/WP13

Contribution ID: **69**

Type: **not specified**

BBLR wire compensation in Run 4

Wednesday, 27 September 2023 14:30 (30 minutes)

Presenter: STERBINI, Guido (CERN)

Session Classification: Wednesday PM - WP2/WP13

Contribution ID: **70**

Type: **not specified**

Discussion

Wednesday, 27 September 2023 15:00 (30 minutes)

Session Classification: Wednesday PM - WP2/WP13

Contribution ID: 71

Type: **not specified**

DQW CC frequency & HOM evolution during manufacture and cold testing

Wednesday, 27 September 2023 10:00 (30 minutes)

Presenter: EDWARDS, Amelia Veronica (Lancaster University)

Session Classification: Wednesday AM - WP4 part 1

Contribution ID: 72

Type: **not specified**

RFD-CM drawing status and strategy

Wednesday, 27 September 2023 16:00 (20 minutes)

Presenter: MATHESON, Benjamin Jon

Session Classification: Wednesday PM - WP4 part 2

Contribution ID: 73

Type: **not specified**

Production testing summary of the MQXFA magnets

Wednesday, 27 September 2023 08:30 (30 minutes)

Presenter: BEN YAHIA, Anis

Session Classification: Wednesday AM - WP3 MQXF - part 1

Contribution ID: 74

Type: **not specified**

Horizontal test results of LQXFA/B01 and plans for testing LQXFA/B02 (remote talk)

Wednesday, 27 September 2023 09:00 (30 minutes)

Presenter: CHLACHIDZE, Guram

Session Classification: Wednesday AM - WP3 MQXF - part 1

Contribution ID: 75

Type: **not specified**

MQXFB horizontal test results

Wednesday, 27 September 2023 09:30 (30 minutes)

Presenter: WILLERING, Gerard (CERN)

Session Classification: Wednesday AM - WP3 MQXF - part 1

Contribution ID: 76

Type: **not specified**

MQXFS test results

Wednesday, 27 September 2023 10:00 (30 minutes)

Presenter: IZQUIERDO BERMUDEZ, Susana (CERN)

Session Classification: Wednesday AM - WP3 MQXF - part 1

Contribution ID: 77

Type: **not specified**

Field quality and integrated gradient in MQXFA magnets and LQXFA/B01 (remote talk)

Wednesday, 27 September 2023 11:00 (30 minutes)

Presenter: DIMARCO, Joseph

Session Classification: Wednesday AM - WP3 MQXF - part 2

Contribution ID: 78

Type: **not specified**

Field quality and integrated gradient in MQXFB

Wednesday, 27 September 2023 11:30 (30 minutes)

Presenter: FISCARELLI, Lucio (CERN)

Session Classification: Wednesday AM - WP3 MQXF - part 2

Contribution ID: 79

Type: **not specified**

MQXFA fabrication status and schedule

Thursday, 28 September 2023 08:30 (30 minutes)

Presenter: AMBROSIO, Giorgio (Fermilab)

Session Classification: Thursday AM - WP3 MQXF part 1

Contribution ID: **80**

Type: **not specified**

MQXFA, magnet assembly and preload

Thursday, 28 September 2023 09:00 (30 minutes)

Presenters: CHENG, Daniel (LBNL); CHENG, Daniel

Session Classification: Thursday AM - WP3 MQXF part 1

Contribution ID: **81**

Type: **not specified**

Q1/Q3: CM and Cryo-Assembly production status (remote talk)

Thursday, 28 September 2023 09:30 (1 hour)

Presenter: FEHER, Sandor

Session Classification: Thursday AM - WP3 MQXF part 1

Contribution ID: **82**

Type: **not specified**

MQXFB coil fabrication (experience new coil fabrication)

Thursday, 28 September 2023 11:00 (30 minutes)

Presenter: IZQUIERDO BERMUDEZ, Susana (CERN)

Session Classification: Thursday AM - WP3 MQXF part 2

Contribution ID: **83**

Type: **not specified**

MQXFB assembly

Thursday, 28 September 2023 11:30 (30 minutes)

Presenter: IZQUIERDO BERMUDEZ, Susana (CERN)

Session Classification: Thursday AM - WP3 MQXF part 2

Contribution ID: **86**

Type: **not specified**

SM18 test benches and first results for magnets and SC-link system in the final configuration

Tuesday, 26 September 2023 17:05 (25 minutes)

Presenter: WILLERING, Gerard (CERN)

Session Classification: Tuesday PM - WP3/WP7/WP6A/WP16

Contribution ID: 87

Type: **not specified**

Readiness of WP6A cold powering system for the IT String

Tuesday, 26 September 2023 17:30 (25 minutes)

Presenter: LECLERCQ, Yann (CERN)

Session Classification: Tuesday PM - WP3/WP7/WP6A/WP16

Contribution ID: **88**

Type: **not specified**

Acceptance criteria A & B revision

Wednesday, 27 September 2023 11:40 (20 minutes)

Presenters: RISTORI, Leonardo (Fermilab); RISTORI, Leonardo (Fermilab)

Session Classification: Wednesday AM - WP4 part 2

Contribution ID: **89**

Type: **not specified**

RFD assembly project structure (Boms docs, logistics, ..)

Tuesday, 26 September 2023 16:50 (30 minutes)

Presenters: TEMPLETON, Niklas John (STFC Daresbury Laboratory (GB)); TEMPLETON, Niklas

Session Classification: Tuesday PM - WP4

Contribution ID: **90**

Type: **not specified**

Updates of energy deposition studies

Wednesday, 27 September 2023 17:30 (15 minutes)

Presenter: SABATE GILARTE, Marta (CERN)

Session Classification: Wednesday PM - WP2/WP3/WP5/WP10/WP15

Contribution ID: **91**

Type: **not specified**

AOB - aperture measurements in the series DQW

Thursday, 28 September 2023 11:45 (15 minutes)

Presenters: VALVERDE ALONSO, Nuria (CERN); CALAGA, Rama (CERN)

Session Classification: Thursday AM - WP2/WP4/WP13 part 2

Contribution ID: 92

Type: **not specified**

High Order Correctors end of production

Tuesday, 26 September 2023 12:50 (10 minutes)

Presenter: STATERA, Marco (INFN Milano - LASA)

Session Classification: Plenary session - Tuesday AM