9th HL-LHC Collaboration Meeting, Fermilab, USA - 14-16 October 2019

Report of Contributions

https://indico.cern.ch/e/806637

Contribution ID: **1** Type: **not specified**

Welcome

Monday 14 October 2019 09:00 (10 minutes)

Session Classification: Plenary session - Monday AM

Contribution ID: **2** Type: **not specified**

US roadmap for future accelerators - the collaboration with CERN for HiLumi LHC and beyond

Monday 14 October 2019 09:10 (30 minutes)

Presenter: LOCKYER, Nigel (FNAL)

Session Classification: Plenary session - Monday AM

Contribution ID: **3** Type: **not specified**

CERN roadmap for HiLumi LHC and beyond

Monday 14 October 2019 09:40 (30 minutes)

Presenter: BORDRY, Frederick (CERN)

Session Classification: Plenary session - Monday AM

Contribution ID: **4** Type: **not specified**

Project status and collaborations

Monday 14 October 2019 10:10 (30 minutes)

Presenter: ROSSI, Lucio (CERN)

Session Classification: Plenary session - Monday AM

Contribution ID: **5** Type: **not specified**

Status of US contribution to HiLumi (past and present)

Monday 14 October 2019 10:40 (30 minutes)

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

Session Classification: Plenary session - Monday AM

Contribution ID: **6** Type: **not specified**

HiLumi IR magnets: where do we stand?

Monday 14 October 2019 11:40 (30 minutes)

Presenter: TODESCO, Ezio (CERN)

Session Classification: Plenary session - Monday AM

Contribution ID: **7** Type: **not specified**

Status of the 11 T dipole and CERN magnet programs beyond HiLumi

Monday 14 October 2019 13:40 (30 minutes)

Presenter: DEVRED, Arnaud (CERN)

Session Classification: Plenary session - Monday PM

Contribution ID: **8** Type: **not specified**

HiLumi US magnet construction and testing plans

Monday 14 October 2019 12:10 (30 minutes)

Presenters: AMBROSIO, Giorgio (Fermilab); FEHER, Sandor (Fermi National Accelerator Lab. (US))

Session Classification: Plenary session - Monday AM

Contribution ID: **9** Type: **not specified**

Linear and nonlinear optics correction in the HL-LHC: experience from the LHC and impact on HL-LHC

Monday 14 October 2019 15:00 (20 minutes)

Presenter: MACLEAN, Ewen Hamish (University of Malta (MT))

Session Classification: Plenary session - Monday PM

Contribution ID: **10** Type: **not specified**

Recent results of the US Magnet Development Program and outlook to the future

Monday 14 October 2019 14:10 (30 minutes)

Presenter: ZLOBIN, Alexander (Fermilab)

Session Classification: Plenary session - Monday PM

Contribution ID: **11** Type: **not specified**

HL-LHC Remote alignment system: what it is and what it will bring us

Monday 14 October 2019 14:40 (20 minutes)

Presenter: GIOVANNOZZI, Massimo (CERN)

Session Classification: Plenary session - Monday PM

Contribution ID: **12** Type: **not specified**

Circuits status and outcome of the review

Monday 14 October 2019 15:20 (20 minutes)

Presenter: RODRIGUEZ MATEOS, Felix (CERN)

Session Classification: Plenary session - Monday PM

Contribution ID: **13** Type: **not specified**

The new cold powering for HL-LHC: test results and final layout

Monday 14 October 2019 15:40 (30 minutes)

Presenter: BALLARINO, Amalia (CERN)

Session Classification: Plenary session - Monday PM

Contribution ID: **14** Type: **not specified**

Effects of magnet circuit protection elements on the circulating beam

Monday 14 October 2019 16:40 (30 minutes)

Presenter: WOLLMANN, Daniel (CERN)

Session Classification: Plenary session - Monday PM

Contribution ID: **15** Type: **not specified**

SPS crab cavity tests: lesson learnt in view of final design

Monday 14 October 2019 17:10 (30 minutes)

Presenter: CALAGA, Rama (CERN)

Session Classification: Plenary session - Monday PM

Contribution ID: **16** Type: **not specified**

Cavity & cryomodule strategy and status

Monday 14 October 2019 17:40 (20 minutes)

Presenter: CAPATINA, Ofelia (CERN)

Session Classification: Plenary session - Monday PM

Contribution ID: **17** Type: **not specified**

RFD cavity construction in industry

Monday 14 October 2019 18:00 (20 minutes)

Presenter: RISTORI, Leonardo (Fermilab)

Session Classification: Plenary session - Monday PM

Contribution ID: **18** Type: **not specified**

Status of beam instrumentation

Tuesday 15 October 2019 09:40 (20 minutes)

Presenter: WENDT, Manfred (CERN)

Session Classification: Plenary session - Tuesday AM

Contribution ID: **19** Type: **not specified**

Status of the vacuum technologies for HiLumi

Tuesday 15 October 2019 08:30 (20 minutes)

Presenter: BAGLIN, Vincent (CERN)

Session Classification: Plenary session - Tuesday AM

Contribution ID: **20** Type: **not specified**

Status of HL Collimation and update on layout

Tuesday 15 October 2019 08:50 (30 minutes)

Presenter: BRUCE, Roderik (CERN)

Session Classification: Plenary session - Tuesday AM

Contribution ID: **21** Type: **not specified**

Highlights and new challenges for WP14

Tuesday 15 October 2019 09:20 (20 minutes)

Presenter: BRACCO, Chiara (CERN)

Session Classification: Plenary session - Tuesday AM

Contribution ID: **23** Type: **not specified**

Progress of civil engineering works

Tuesday 15 October 2019 10:00 (30 minutes)

Presenter: MATTELAER, Pieter (CERN)

Session Classification: Plenary session - Tuesday AM

Contribution ID: **24** Type: **not specified**

Evolution of risk assessment for HiLumi

Tuesday 15 October 2019 10:50 (20 minutes)

Presenter: BEJAR ALONSO, Isabel (CERN)

Session Classification: Plenary session - Tuesday AM

Contribution ID: **25** Type: **not specified**

Risk assessment and contingency analysis for US HL-LHC AUP

Tuesday 15 October 2019 11:10 (20 minutes)

Presenter: CARCAGNO, Ruben Horacio

Session Classification: Plenary session - Tuesday AM

Contribution ID: **26** Type: **not specified**

The CERN-US collaboration from LHC to HiLumi: a personal recollection

Tuesday 15 October 2019 11:30 (30 minutes)

Presenter: STRAUSS, Bruce

Session Classification: Plenary session - Tuesday AM

Contribution ID: **27** Type: **not specified**

Hollow e-lens status

Wednesday 16 October 2019 11:40 (20 minutes)

Presenters: REDAELLI, Stefano (CERN); ROSSI, Adriana (CERN); PERINI, Diego (CERN)

Session Classification: Plenary session - Wednesday AM

Contribution ID: **28** Type: **not specified**

Update on the IOTA results and plans

Wednesday 16 October 2019 11:20 (20 minutes)

Presenter: VALISHEV, Alexander (Fermilab)

Session Classification: Plenary session - Wednesday AM

Contribution ID: **29** Type: **not specified**

Recent progress on noise estimation for HL-LHC circuits powering

Wednesday 16 October 2019 11:00 (20 minutes)

Presenter: MARTINO, Michele (CERN)

Session Classification: Plenary session - Wednesday AM

Contribution ID: **30** Type: **not specified**

Reason for embarking 3 additional options in baseline

Wednesday 16 October 2019 12:00 (30 minutes)

Presenter: BRUNING, Oliver (CERN)

Session Classification: Plenary session - Wednesday AM

Contribution ID: **31** Type: **not specified**

Wrap up

Wednesday 16 October 2019 12:30 (30 minutes)

Presenter: ROSSI, Lucio (CERN)

Session Classification: Plenary session - Wednesday AM

Contribution ID: **32** Type: **not specified**

Update on impact of field quality

Tuesday 15 October 2019 12:00 (20 minutes)

Presenter: GIOVANNOZZI, Massimo (CERN)

Session Classification: Tuesday AM WP2/WP3

Contribution ID: **33** Type: **not specified**

Preview of the procedures for linear and nonlinear optics correction and assumptions underlying

Tuesday 15 October 2019 12:20 (20 minutes)

Presenter: TOMAS GARCIA, Rogelio (CERN)

Session Classification: Tuesday AM WP2/WP3

Contribution ID: **34** Type: **not specified**

IR optics correction

Tuesday 15 October 2019 12:40 (20 minutes)

Presenter: GARCIA MORALES, Hector (University of Oxford)

Session Classification: Tuesday AM WP2/WP3

Contribution ID: **35** Type: **not specified**

Nonlinear islands as a mechanism for emittance growth in the LHC energy ramp

Tuesday 15 October 2019 15:00 (30 minutes)

Presenter: MACLEAN, Ewen Hamish (University of Malta (MT))

Session Classification: Tuesday PM WP2/WP5/WP13

Contribution ID: **36** Type: **not specified**

Latest on noise effect on the beam

Tuesday 15 October 2019 15:30 (30 minutes)

Presenter: STERBINI, Guido (CERN)

Session Classification: Tuesday PM WP2/WP5/WP13

Contribution ID: **37** Type: **not specified**

Electron beam test facility and e-beam simulations at CERN

Tuesday 15 October 2019 16:00 (30 minutes)

Presenter: SADOVICH, Sergey (CERN)

Session Classification: Tuesday PM WP2/WP5/WP13

Contribution ID: **38** Type: **not specified**

Beam dynamics simulations with a Hollow Electron Lens [remote talk]

Tuesday 15 October 2019 14:30 (30 minutes)

Presenters: MIRARCHI, Daniele (University of Manchester (GB)); MEREGHETTI, Alessio (CERN)

Session Classification: Tuesday PM WP2/WP5/WP13

Contribution ID: **39** Type: **not specified**

Gas jet diagnostics for the hollow e-lens [remote talk]

Tuesday 15 October 2019 14:00 (30 minutes)

Presenter: ZHANG, Hao (University of Liverpool/Cockcroft Institute)

Session Classification: Tuesday PM WP2/WP5/WP13

Contribution ID: **40** Type: **not specified**

Energy deposition in optics V1.5 and possible layout optimizations

Tuesday 15 October 2019 17:00 (30 minutes)

Presenter: SABATE GILARTE, Marta (Universidad de Sevilla (ES))

Session Classification: Tuesday PM WP2/WP5/WP10

Contribution ID: **41** Type: **not specified**

Status of the electron cloud simulations for HL-LHC: build-up and instabilities

Wednesday 16 October 2019 09:45 (30 minutes)

Presenter: IADAROLA, Giovanni (CERN)

Session Classification: Wednesday AM WP2/WP4

Contribution ID: **42** Type: **not specified**

DQW cold testing summary

Tuesday 15 October 2019 12:00 (20 minutes)

Presenter: VERDÚ ANDRÉS, Silvia (Brookhaven National Laboratory BNL)

Session Classification: Tuesday AM WP4

Contribution ID: **43** Type: **not specified**

RFD cavities processing, warm and cold tests summary

Tuesday 15 October 2019 12:20 (20 minutes)

Presenter: BERRUTTI, Paolo (FNAL)

Session Classification: Tuesday AM WP4

Contribution ID: **44** Type: **not specified**

Physical and data interfaces between HL-LHC WP4 and US AUP

Wednesday 16 October 2019 14:20 (20 minutes)

Presenter: VERDÚ ANDRÉS, Silvia (Brookhaven National Laboratory BNL)

Session Classification: Wednesday PM WP4

Contribution ID: **45** Type: **not specified**

HOM coupler update (RFD + DQW)

Tuesday 15 October 2019 15:30 (30 minutes)

Presenter: MONTESINOS, Eric (CERN)

Session Classification: Tuesday PM WP4

Contribution ID: **47** Type: **not specified**

DQW RI production

Tuesday 15 October 2019 14:00 (30 minutes)

Presenter: VALVERDE ALONSO, Nuria (CERN)

Session Classification: Tuesday PM WP4

Contribution ID: **48** Type: **not specified**

RFD ancillary fabrication at JLab

Tuesday 15 October 2019 15:00 (30 minutes)

Presenter: HUQUE, Naeem (Jefferson Lab)

Session Classification: Tuesday PM WP4

Contribution ID: **49** Type: **not specified**

Qualification status of US-AUP

Tuesday 15 October 2019 14:30 (30 minutes)

Presenter: NARDUZZI, Manuele

Session Classification: Tuesday PM WP4

Contribution ID: **50** Type: **not specified**

UK1 RFD cryomodule status & transport aspects

Tuesday 15 October 2019 17:30 (30 minutes)

Presenter: JONES, Thomas (STFC)

Session Classification: Tuesday PM WP4

Contribution ID: **51** Type: **not specified**

RFD Canada status & transport aspects

Tuesday 15 October 2019 17:00 (30 minutes)

Presenter: LAXDAL, Robert Edward

Session Classification: Tuesday PM WP4

Contribution ID: **52** Type: **not specified**

Discussion cryomodule

Tuesday 15 October 2019 18:00 (30 minutes)

Session Classification: Tuesday PM WP4

Contribution ID: **53** Type: **not specified**

D1 update

Tuesday 15 October 2019 17:50 (40 minutes)

Presenter: NAKAMOTO, Tatsushi

Session Classification: Tuesday PM WP3

Contribution ID: **54** Type: **not specified**

D2 update

Tuesday 15 October 2019 14:30 (40 minutes)

Presenter: BERSANI, Andrea (INFN e Universita Genova (IT))

Session Classification: Tuesday PM WP3

Contribution ID: **55** Type: **not specified**

MCBXF update

Tuesday 15 October 2019 15:10 (40 minutes)

Presenter: GARCIA MATOS, Jesus Angel

Session Classification: Tuesday PM WP3

Contribution ID: **56** Type: **not specified**

HO corrector update

Tuesday 15 October 2019 14:00 (30 minutes)

Presenter: STATERA, Marco (INFN Milano - LASA)

Session Classification: Tuesday PM WP3

Contribution ID: **57** Type: **not specified**

Cold mass development AUP

Tuesday 15 October 2019 15:50 (25 minutes)

Presenter: FEHER, Sandor (Fermi National Accelerator Lab. (US))

Session Classification: Tuesday PM WP3

Contribution ID: **58** Type: **not specified**

Cold mass development CERN

Tuesday 15 October 2019 16:15 (25 minutes)

Presenter: PRIN, Herve (CERN)

Session Classification: Tuesday PM WP3

Contribution ID: **59** Type: **not specified**

Cryostat development

Tuesday 15 October 2019 17:10 (20 minutes)

Presenter: DUARTE RAMOS, Delio (CERN)

Session Classification: Tuesday PM WP3

Contribution ID: **60** Type: **not specified**

Test facility status at FNAL

Tuesday 15 October 2019 17:30 (20 minutes)

Presenter: CHLACHIDZE, Guram (Fermilab)

Session Classification: Tuesday PM WP3

Contribution ID: **61** Type: **not specified**

Summary of the experimental test with the SPS crab cavities wrt field quality measurement and specifications for HL-LHC

Wednesday 16 October 2019 08:30 (25 minutes)

Presenter: CRUZ ALANIZ, Emilia (University of Oxford JAI)

Session Classification: Wednesday AM WP2/WP4

Contribution ID: **62** Type: **not specified**

Update on longitudinal beam stability in HL-LHC

Wednesday 16 October 2019 08:55 (25 minutes)

Presenter: KARPOV, Ivan (CERN)

Session Classification: Wednesday AM WP2/WP4

Contribution ID: **64** Type: **not specified**

Status of the LHC injection voltage limits with 1/2-detuning

Wednesday 16 October 2019 09:20 (25 minutes)

Presenter: TIMKO, Helga (CERN)

Session Classification: Wednesday AM WP2/WP4

Contribution ID: **65** Type: **not specified**

Update on energy deposition studies for the beam dump

Tuesday 15 October 2019 15:30 (30 minutes)

Presenter: RIZZOGLIO, Valeria (CERN)

Session Classification: Tuesday PM WP7/WP14

Contribution ID: **66** Type: **not specified**

Energy deposition in IR6 magnets during regular an irregular beam losses

Tuesday 15 October 2019 16:00 (30 minutes)

Presenter: LECHNER, Anton (CERN)

Session Classification: Tuesday PM WP7/WP14

Contribution ID: **67** Type: **not specified**

Damage of sc. strands due to beam impact at 4 K - experimental results

Tuesday 15 October 2019 17:00 (30 minutes)

Presenter: WOLLMANN, Daniel (CERN)

Session Classification: Tuesday PM WP7/WP14

Contribution ID: **68** Type: **not specified**

Conclusion on machine protection tests with SPS crab cavities

Tuesday 15 October 2019 17:30 (30 minutes)

Presenter: WOLLMANN, Daniel (CERN)

Session Classification: Tuesday PM WP7/WP14

Contribution ID: **69** Type: **not specified**

Short model test results CERN (also He gas intermediate test) [remote talk]

Wednesday 16 October 2019 09:00 (30 minutes)

Presenter: MANGIAROTTI, Franco Julio (CERN)

Session Classification: Wednesday AM WP3

Contribution ID: **70** Type: **not specified**

MQXFAP1b test results

Wednesday 16 October 2019 09:30 (30 minutes)

Presenter: MURATORE, Joseph F (Brookhaven National Laboratory)

Session Classification: Wednesday AM WP3

Contribution ID: **71** Type: **not specified**

MQXFAP1b alignment and field quality

Wednesday 16 October 2019 10:00 (15 minutes)

Presenter: DIMARCO, Joseph (Fermi National Accelerator Laboratory)

Session Classification: Wednesday AM WP3

Contribution ID: **72** Type: **not specified**

Parameter range for protection analysis

Wednesday 16 October 2019 10:15 (15 minutes)

Presenters: IZQUIERDO BERMUDEZ, Susana (CERN); BALDINI, Maria (Fermi national accellerator laboratory)

Session Classification: Wednesday AM WP3

Contribution ID: **73** Type: **not specified**

Open recommendations from past AUP reviews, also involves TRIUMF

Wednesday 16 October 2019 14:00 (20 minutes)

Presenter: RISTORI, Leonardo (Fermilab)

Session Classification: Wednesday PM WP4

Contribution ID: **74** Type: **not specified**

Fabrication status, NCR, and QH studies FNAL

Wednesday 16 October 2019 14:00 (20 minutes)

Presenter: NOBREGA, Fred (Fermilab)

Session Classification: Wednesday PM WP3

Contribution ID: **75** Type: **not specified**

Fabrication status, NCR, and QH studies CERN

Wednesday 16 October 2019 14:40 (20 minutes)

Presenter: IZQUIERDO BERMUDEZ, Susana (CERN)

Session Classification: Wednesday PM WP3

Contribution ID: **76** Type: **not specified**

QH assessment

Wednesday 16 October 2019 15:00 (20 minutes)

Presenter: AMBROSIO, Giorgio (Fermilab)

Session Classification: Wednesday PM WP3

Contribution ID: **77** Type: **not specified**

Updates on impregnation and epoxy analysis CERN

Wednesday 16 October 2019 16:20 (25 minutes)

Presenter: DEVRED, Arnaud (CERN)

Session Classification: Wednesday PM WP3

Contribution ID: **78** Type: **not specified**

Updates on impregnation and epoxy analysis AUP

Wednesday 16 October 2019 16:45 (25 minutes)

Presenters: KRAVE, Steve (Fermilab); NOBREGA, Fred (Fermilab)

Session Classification: Wednesday PM WP3

Contribution ID: **79** Type: **not specified**

MQXFA03 loading (remote talk)

Wednesday 16 October 2019 17:10 (25 minutes)

Presenter: CHENG, Daniel

Session Classification: Wednesday PM WP3

Contribution ID: **80** Type: **not specified**

Workshop feedback

Wednesday 16 October 2019 17:35 (25 minutes)

Presenter: FERRACIN, Paolo (CERN)

Session Classification: Wednesday PM WP3

Contribution ID: **81** Type: **not specified**

Status and outlook of specification document for HL-LHC radiation environment for electronics

Tuesday 15 October 2019 14:00 (30 minutes)

Presenter: LERNER, Giuseppe (CERN)

Session Classification: Tuesday PM WP7/WP10

Contribution ID: **82** Type: **not specified**

Update of radiation levels on equipment in the IP1 and IP5 LSS

Tuesday 15 October 2019 14:30 (30 minutes)

Presenter: LERNER, Giuseppe (CERN)

Session Classification: Tuesday PM WP7/WP10

Contribution ID: **83** Type: **not specified**

Measured cold diode radiation tolerance and proposal of an extended theoretical model

Tuesday 15 October 2019 15:00 (30 minutes)

Presenter: WOLLMANN, Daniel (CERN)

Session Classification: Tuesday PM WP7/WP10

Contribution ID: **84** Type: **not specified**

Introduction : changes from previous annual meeting

Wednesday 16 October 2019 08:30 (5 minutes)

Presenter: REDAELLI, Stefano (CERN)

Session Classification: Wednesday AM WP5

Contribution ID: **85** Type: **not specified**

Mitigations of DS losses with new 11T dipole layouts (15 + 5)

Wednesday 16 October 2019 08:35 (20 minutes)

Presenters: MEREGHETTI, Alessio (CERN); BRUCE, Roderik (CERN)

Session Classification: Wednesday AM WP5

Contribution ID: **86** Type: **not specified**

Updated energy deposition simulations in DSs (15 + 5)

Wednesday 16 October 2019 08:55 (20 minutes)

Presenter: WAETS, Andreas (CERN)

Session Classification: Wednesday AM WP5

Contribution ID: **87** Type: **not specified**

DPAs and gas production simulations in IR7 for HL-LHC (15 + 5)

Wednesday 16 October 2019 09:15 (20 minutes)

Presenter: WAETS, Andreas (CERN)

Session Classification: Wednesday AM WP5

Contribution ID: **88** Type: **not specified**

Results of GSI irradiation campaigns (15 + 5)

Wednesday 16 October 2019 09:35 (20 minutes)

Presenter: BERTARELLI, Alessandro (CERN)

Session Classification: Wednesday AM WP5

Contribution ID: **89** Type: **not specified**

LS2 collimator production status (15 + 5)

Wednesday 16 October 2019 09:55 (20 minutes)

Presenter: LAMAS GARCIA, Inigo (CERN)

Session Classification: Wednesday AM WP5

Contribution ID: **90** Type: **not specified**

Recent results on crystal collimation

Wednesday 16 October 2019 10:15 (15 minutes)

Presenter: REDAELLI, Stefano (CERN)

Session Classification: Wednesday AM WP5

Contribution ID: **91** Type: **not specified**

Short overview of WP8 studies

Tuesday 15 October 2019 12:00 (10 minutes)

Presenter: BURKHARDT, Helmut (CERN)

Session Classification: Tuesday AM WP7/WP8/WP5

Contribution ID: **92** Type: **not specified**

Short overview of WP7 failure case studies

Tuesday 15 October 2019 12:10 (10 minutes)

Presenter: WOLLMANN, Daniel (CERN)

Session Classification: Tuesday AM WP7/WP8/WP5

Contribution ID: **93** Type: **not specified**

Short overview of WP5 failure studies

Tuesday 15 October 2019 12:20 (10 minutes)

Presenters: BRUCE, Roderik (CERN); REDAELLI, Stefano (CERN)

Session Classification: Tuesday AM WP7/WP8/WP5

Contribution ID: **94** Type: **not specified**

Discussion on need for future failure case studies (all)

Tuesday 15 October 2019 12:40 (20 minutes)

Session Classification: Tuesday AM WP7/WP8/WP5

Contribution ID: **95** Type: **not specified**

HiLumi Cryogenics: progress highlights and perspectives

Monday 14 October 2019 18:20 (20 minutes)

Presenter: CLAUDET, Serge (CERN)

Session Classification: Plenary session - Monday PM

Contribution ID: **96** Type: **not specified**

Fabrication status, NCR, and QH studies BNL [remote talk]

Wednesday 16 October 2019 14:20 (20 minutes)

Presenter: SCHMALZLE, Jesse

Session Classification: Wednesday PM WP3

Contribution ID: **97** Type: **not specified**

Fast turn-around QH tests

Wednesday 16 October 2019 15:20 (20 minutes)

Presenter: MARINOZZI, Vittorio (FNAL)

Session Classification: Wednesday PM WP3

Contribution ID: **98** Type: **not specified**

Plans and decision tree

Wednesday 16 October 2019 15:40 (20 minutes)

Presenter: FERRACIN, Paolo (CERN)

Session Classification: Wednesday PM WP3

Contribution ID: **99** Type: **not specified**

Discussion (All)

Tuesday 15 October 2019 16:00 (30 minutes)

Session Classification: Tuesday PM WP4

Contribution ID: **100** Type: **not specified**

Functional requirements specification

Wednesday 16 October 2019 14:40 (20 minutes)

Presenters: BERRUTTI, Paolo (FNAL); RISTORI, Leonardo (Fermilab)

Session Classification: Wednesday PM WP4

Contribution ID: **101** Type: **not specified**

Frequency recipe

Wednesday 16 October 2019 15:00 (20 minutes)

Presenters: DE SILVA, Subashini (Old Dominion University (US)); BERUTTI, Paolo (FNAL)

Session Classification: Wednesday PM WP4

Contribution ID: **102** Type: **not specified**

Discussion (All)

Wednesday 16 October 2019 15:20 (40 minutes)

Session Classification: Wednesday PM WP4

Contribution ID: **103** Type: **not specified**

Status of TAXS region and TAXN

Tuesday 15 October 2019 12:30 (10 minutes)

Presenter: SANCHEZ GALAN, Francisco (CERN)

Session Classification: Tuesday AM WP7/WP8/WP5