

**MAP 2015 Spring
Collaboration Meeting
(MAP15)**

Report of Contributions

Contribution ID: 0

Type: **not specified**

Decay Ring Design for Long Baseline NF a la NuMAX

Wednesday, 20 May 2015 15:30 (30 minutes)

Presenters: Dr PASTERNAK, Jaroslaw (Imperial College/RAL-STFC); Dr LAGRANGE, jean-baptiste (Imperial College/Fermilab)

Session Classification: Muon Storage Ring Technology

Contribution ID: 1

Type: **not specified**

Decay Ring Design for Long Baseline NF a la NuMAX

Presenter: Dr PASTERNAK, Jaroslaw (Imperial College/RAL-STFC)

Contribution ID: 2

Type: **not specified**

Design of a FODO Ring a la nuSTORM

Presenter: Mr LIU, Ao (Indiana University/Fermilab)

Contribution ID: 3

Type: **not specified**

Design of an RFFAG Ring a la nuSTORM

Wednesday, 20 May 2015 16:00 (30 minutes)

Presenter: Dr LAGRANGE, jean-baptiste (Imperial College/Fermilab)

Session Classification: Muon Storage Ring Technology

Contribution ID: 5

Type: **not specified**

MICE and the Next Generation of Muon Beams for Particle Physics

Friday, 22 May 2015 16:00 (1 hour)

Presenter: Prof. LONG, Kenneth (Imperial College London)

Session Classification: Invited Seminar

Contribution ID: 6

Type: **not specified**

Welcome & logistics

Monday, 18 May 2015 13:00 (10 minutes)

Presenter: Dr MEYER, Timothy (Fermilab)

Session Classification: Current status & recent progress

Contribution ID: 7

Type: **not specified**

MAP: R&D Towards Future Neutrino Factory and Lepton Collider Capabilities

Monday, 18 May 2015 13:10 (45 minutes)

Presenter: Dr PALMER, Mark (Fermilab)

Session Classification: Current status & recent progress

Contribution ID: 8

Type: **not specified**

MICE Status and Plans

Tuesday, 19 May 2015 09:00 (45 minutes)

Presenter: Dr ROGERS, Chris (Rutherford Lab)

Session Classification: Current status & recent progress

Contribution ID: **10**

Type: **not specified**

Neutrino Physics Landscape

Monday, 18 May 2015 14:10 (50 minutes)

Presenter: Prof. PASCOLI, Silvia (University of Durham)

Session Classification: Current status & recent progress

Contribution ID: 11

Type: **not specified**

Finalizing NuMAX Acceleration

Wednesday, 20 May 2015 13:50 (30 minutes)

Presenter: Dr BOGACZ, Alex (Jefferson Lab)

Session Classification: Muon Acceleration Techniques

Contribution ID: 12

Type: **not specified**

Acceleration: Important Topics for Future Studies

Wednesday, 20 May 2015 14:20 (30 minutes)

Presenter: Dr BERG, J. Scott (Brookhaven National Laboratory)

Session Classification: Muon Acceleration Techniques

Contribution ID: 13

Type: **not specified**

Energy Deposition Studies

Tuesday, 19 May 2015 14:05 (25 minutes)

Presenter: Dr SNOPOK, Pavel (IIT/Fermilab)

Session Classification: High Intensity Muon Beams

Contribution ID: 14

Type: **not specified**

Hybrid Cooling Channel Simulations

Presenter: Dr STRATAKIS, Diktys (Brookhaven National Laboratory)

Contribution ID: 15

Type: **not specified**

Helical Cooling Channel Simulations

Presenter: YONEHARA, Katsuya (Fermilab)

Contribution ID: 16

Type: **not specified**

Report from the AARD Sub-Panel

Tuesday, 19 May 2015 15:30 (30 minutes)

Presenter: Prof. HARTILL, Don (Cornell University)

Session Classification: Current status & recent progress

Contribution ID: 17

Type: **not specified**

Plasma Loading Estimation in the Helical and Hybrid Cooling Channels

Wednesday, 20 May 2015 10:15 (20 minutes)

Presenter: Dr FREEMIRE, Ben (IIT)

Session Classification: High Brightness Muon Beams

Contribution ID: **18**

Type: **not specified**

Beam-Plasma Effects in the Cooling Channel

Wednesday, 20 May 2015 11:00 (20 minutes)

Presenter: ELLISON, James (Illinois Institute of Technology)

Session Classification: High Brightness Muon Beams

Contribution ID: **19**

Type: **not specified**

Bunch Merge Update

Presenter: Dr BAO, Yu (University of California Riverside)

Contribution ID: 20

Type: **not specified**

Final muon cooling with quadrupole doublets to feed a potato slicer

Wednesday, 20 May 2015 12:10 (20 minutes)

Presenter: HART, Terry

Session Classification: High Brightness Muon Beams

Contribution ID: 23

Type: **not specified**

High-Intensity Muon Source: Status and Future Plans

Tuesday, 19 May 2015 09:45 (15 minutes)

Presenter: Dr STRATAKIS, Diktys (Brookhaven National Laboratory)

Session Classification: High Intensity Muon Beams

Contribution ID: 24

Type: **not specified**

Particle production of a carbon/mercury system for the intensity frontier

Tuesday, 19 May 2015 10:00 (25 minutes)

Presenter: Dr DING, Xiaoping (UCLA)

Session Classification: High Intensity Muon Beams

Contribution ID: 25

Type: **not specified**

Target: Status and future plans

Tuesday, 19 May 2015 11:30 (25 minutes)

Presenter: Prof. MCDONALD, Kirk (Princeton University)

Session Classification: High Intensity Muon Beams

Contribution ID: 26

Type: **not specified**

Simulation Studies for High-Intensity Muon Source

Tuesday, 19 May 2015 13:40 (25 minutes)

Presenter: Dr SAYED, Hisham (Brookhaven National Laboratory)

Session Classification: High Intensity Muon Beams

Contribution ID: 27

Type: **not specified**

Bunch-merger and low-energy production on a spallation target

Tuesday, 19 May 2015 10:55 (35 minutes)

Presenter: Dr BAO, Yu (University of California Riverside)

Session Classification: High Intensity Muon Beams

Contribution ID: 28

Type: **not specified**

Beam Emittance and Energy Spectra for Hg and C Targets

Tuesday, 19 May 2015 11:55 (20 minutes)

Presenter: Dr BERG, J. Scott (Brookhaven National Laboratory)

Session Classification: High Intensity Muon Beams

Contribution ID: 29

Type: **not specified**

Front-end with gas filled cavities

Tuesday, 19 May 2015 12:15 (25 minutes)

Presenter: Dr NEUFFER, David (Fermilab)

Session Classification: High Intensity Muon Beams

Contribution ID: **30**

Type: **not specified**

Discussion

Tuesday, 19 May 2015 14:30 (30 minutes)

Session Classification: High Intensity Muon Beams

Contribution ID: **31**

Type: **not specified**

Muon Collider Ring - Status and Outlook

Thursday, 21 May 2015 09:00 (25 minutes)

Presenter: Dr ALEXAHIN, Yuri (Fermilab)

Session Classification: Muon Storage Ring Technology

Contribution ID: **32**

Type: **not specified**

Muon collider MDI developments

Thursday, 21 May 2015 09:25 (25 minutes)

Presenter: Dr STRIGANOV, Sergei (Fermilab)

Session Classification: Muon Storage Ring Technology

Contribution ID: 33

Type: **not specified**

A Complete Demonstrator of a Cooled-Muon Higgs factory

Presenter: Prof. RUBBIA, Carlo

Contribution ID: **34**

Type: **not specified**

MICE Step IV Commissioning: Overview

Thursday, 21 May 2015 11:00 (30 minutes)

Presenter: Dr POPOVIC, Milorad (FNAL)

Session Classification: MICE Construction and Experiment

Contribution ID: 35

Type: **not specified**

MICE Spectrometers

Thursday, 21 May 2015 11:30 (30 minutes)

Presenter: Mr OVERTON, Edward (University of Sheffield)

Session Classification: MICE Construction and Experiment

Contribution ID: **36**

Type: **not specified**

Experiment in a bottle (magnetic): MICE PRY

Thursday, 21 May 2015 12:00 (30 minutes)

Presenter: Dr WITTE, Holger (Brookhaven National Laboratory)

Session Classification: MICE Construction and Experiment

Contribution ID: 37

Type: **not specified**

MICE RF and Cooling Demo Configuration

Thursday, 21 May 2015 13:55 (25 minutes)

Presenter: Dr LI, Derun (LBNL)

Session Classification: MICE Construction and Experiment

Contribution ID: **38**

Type: **not specified**

MICE Step IV Run Plan

Thursday, 21 May 2015 13:30 (25 minutes)

Presenter: Dr SOLER, Paul (University of Glasgow)

Session Classification: MICE Construction and Experiment

Contribution ID: **39**

Type: **not specified**

MICE Cooling Demo Performance

Thursday, 21 May 2015 14:40 (20 minutes)

Presenters: Dr PASTERNAK, Jaroslaw (Imperial College/RAL-STFC); Dr LAGRANGE, jean-baptiste (Imperial College/Fermilab)

Session Classification: MICE Construction and Experiment

Contribution ID: 40

Type: **not specified**

Hybrid Cooling Channel Simulations

Wednesday, 20 May 2015 09:50 (25 minutes)

Presenter: Dr STRATAKIS, Diktys (Brookhaven National Laboratory)

Session Classification: High Brightness Muon Beams

Contribution ID: 41

Type: **not specified**

1.5 TeV Muon Collider background rejection in ILCroot Si VXD and Tracker

Thursday, 21 May 2015 09:50 (20 minutes)

Presenter: TARENTIEV, Nikolai (Carnegie Mellon U, USA)

Session Classification: Muon Storage Ring Technology

Contribution ID: 42

Type: **not specified**

Muon Collider Detector Recent Developments

Thursday, 21 May 2015 10:10 (20 minutes)

Presenter: DI BENEDETTO, Vito (INFN-Napoli)

Session Classification: Muon Storage Ring Technology

Contribution ID: 43

Type: **not specified**

Overview of the MICE RF project at MTA

Thursday, 21 May 2015 15:30 (30 minutes)

Presenter: Prof. TORUN, Yagmur (Illinois Institute of Technology)

Session Classification: MTA Experimental Program

Contribution ID: 44

Type: **not specified**

MICE Cavity Commissioning and Operation at MTA

Thursday, 21 May 2015 16:00 (20 minutes)

Presenter: LEONOVA, Maria (Fermilab)

Session Classification: MTA Experimental Program

Contribution ID: 45

Type: **not specified**

Overview of the 805 MHz Modular Cavity project

Thursday, 21 May 2015 16:40 (30 minutes)

Presenter: BOWRING, Daniel (Fermilab)

Session Classification: MTA Experimental Program

Contribution ID: 46

Type: **not specified**

Breakdown Characterization in 805 MHz Cavities in Strong Magnetic Fields

Thursday, 21 May 2015 16:20 (20 minutes)

Presenter: KOCHEMIROVSKIY, Alexey (AD)

Session Classification: MTA Experimental Program

Contribution ID: 47

Type: **not specified**

Acoustic Breakdown Localization in RF Cavities

Thursday, 21 May 2015 17:10 (20 minutes)

Presenter: Mr LANE, Peter (IIT)

Session Classification: MTA Experimental Program

Contribution ID: 48

Type: **not specified**

Physics in a 201 MHz RF Cavity

Friday, 22 May 2015 09:00 (30 minutes)

Presenter: TOLLESTRUP, Alvin (FNAL)

Session Classification: MTA Experimental Program

Contribution ID: 49

Type: **not specified**

Overview of the HPRF project

Friday, 22 May 2015 09:30 (20 minutes)

Presenter: YONEHARA, Katsuya (Fermilab)

Session Classification: MTA Experimental Program

Contribution ID: **50**

Type: **not specified**

Status of a Dielectric Loaded HPRF test

Friday, 22 May 2015 09:50 (20 minutes)

Presenter: Dr FREEMIRE, Ben (IIT)

Session Classification: MTA Experimental Program

Contribution ID: 51

Type: **not specified**

Modeling and Simulation of Beam-Induced Plasma in a Gas-Filled RF Cavity

Friday, 22 May 2015 10:10 (20 minutes)

Presenters: Mr YU, Kwangmin (Stony Brook University); Prof. SAMULYAK, Roman

Session Classification: MTA Experimental Program

Contribution ID: 52

Type: **not specified**

Beam-Plasma Effect in Muon Ionization Cooling Lattices

Presenter: ELLISON, James (Illinois Institute of Technology)

Contribution ID: 53

Type: **not specified**

Characterisation of the KURRI FFAG main ring

Wednesday, 20 May 2015 13:30 (20 minutes)

Presenter: Dr ROGERS, Chris (Rutherford Lab)

Session Classification: Muon Acceleration Techniques

Contribution ID: 54

Type: **not specified**

Final cooling update

Wednesday, 20 May 2015 11:50 (20 minutes)

Presenter: Dr SAYED, Hisham (Brookhaven National Laboratory)

Session Classification: High Brightness Muon Beams

Contribution ID: 55

Type: **not specified**

PIC update

Wednesday, 20 May 2015 11:20 (30 minutes)

Presenter: Dr MOROZOV, Vasiliy

Session Classification: High Brightness Muon Beams

Contribution ID: 56

Type: **not specified**

Discussion

Contribution ID: 57

Type: **not specified**

Panel

Contribution ID: 58

Type: **not specified**

A Complete Demonstrator of a Cooled-Muon Higgs Factory

Monday, 18 May 2015 15:40 (1 hour)

Presenter: Prof. RUBBIA, Carlo

Session Classification: Possible New Initiatives

Contribution ID: 59

Type: **not specified**

Panel

Monday, 18 May 2015 16:40 (55 minutes)

Presenters: Prof. BROSS, Alan (Fermilab); DELAHAYE, Jean-Pierre (SLAC); Dr PALMER, Mark (Fermilab); Dr RYNE, Robert (LBNL); Dr SHILTSEV, Vladimir (FNAL)

Session Classification: Possible New Initiatives

Contribution ID: **60**

Type: **not specified**

Helical Cooling Channel Simulations

Wednesday, 20 May 2015 09:25 (25 minutes)

Presenter: YONEHARA, Katsuya (Fermilab)

Session Classification: High Brightness Muon Beams

Contribution ID: **61**

Type: **not specified**

FOFO Snake - Status and Outlook

Wednesday, 20 May 2015 09:00 (25 minutes)

Presenter: ALEXAHIN, Yuri (Fermilab)

Session Classification: High Brightness Muon Beams

Contribution ID: **62**

Type: **not specified**

GARD Proposals: Status and Prospects

Friday, 22 May 2015 11:30 (30 minutes)

Presenters: BOWRING, Daniel (Fermilab); Dr RYNE, Robert (LBNL)

Session Classification: Concluding Talks

Contribution ID: **63**

Type: **not specified**

nuSTORM Status

Friday, 22 May 2015 12:00 (15 minutes)

Presenter: Prof. BROSS, Alan (Fermilab)

Session Classification: Concluding Talks

Contribution ID: **64**

Type: **not specified**

MICE: Moving Forward

Friday, 22 May 2015 12:15 (15 minutes)

Presenter: Dr LAGRANGE, jean-baptiste (Imperial College/Fermilab)

Session Classification: Concluding Talks

Contribution ID: 65

Type: **not specified**

IB Report

Friday, 22 May 2015 13:30 (20 minutes)

Presenter: Prof. KAPLAN, Daniel (Illinois Institute of Technology)

Session Classification: Concluding Talks

Contribution ID: **66**

Type: **not specified**

Discussion: Future of Muon Facility R&D

Friday, 22 May 2015 13:50 (30 minutes)

Session Classification: Concluding Talks

Contribution ID: 67

Type: **not specified**

Concluding talk

Friday, 22 May 2015 14:20 (30 minutes)

Presenter: Dr PALMER, Mark (Fermilab)

Session Classification: Concluding Talks

Contribution ID: **68**

Type: **not specified**

Discussion

Contribution ID: **69**

Type: **not specified**

CERN Neutrino Platform

Friday, 22 May 2015 11:00 (30 minutes)

Presenter: Prof. NESSI, Marzio (CERN)

Session Classification: Concluding Talks

Contribution ID: 70

Type: **not specified**

Discussion

Wednesday, 20 May 2015 14:50 (10 minutes)

Session Classification: Muon Acceleration Techniques

Contribution ID: 71

Type: **not specified**

MICE RF Drive and Diagnostics

Thursday, 21 May 2015 14:20 (20 minutes)

Presenter: Dr RONALD, Kevin (University of Strathclyde)

Session Classification: MICE Construction and Experiment

Contribution ID: 72

Type: **not specified**

Welcome

Monday, 18 May 2015 15:30 (10 minutes)

Presenter: GEER, Steve (FNAL)

Session Classification: Possible New Initiatives

Contribution ID: 73

Type: **not specified**

A rectilinear channel for six-dimensional muon cooling towards micron-scale emittances

Tuesday, 19 May 2015 16:00 (30 minutes)

Presenter: Dr STRATAKIS, Diktys (Brookhaven National Laboratory)

Session Classification: Invited Seminar

Contribution ID: 74

Type: **not specified**

RF technology demonstrations for future cooled-muon accelerators

Tuesday, 19 May 2015 16:30 (30 minutes)

Presenter: BOWRING, Daniel (Fermilab)

Session Classification: Invited Seminar

Contribution ID: 75

Type: **not specified**

Towards Concluding the Dedicated Volume on Muon Accelerators

Monday, 18 May 2015 13:55 (15 minutes)

Presenter: Dr RYNE, Robert (LBNL)

Session Classification: Current status & recent progress

Contribution ID: 76

Type: **not specified**

Application of optimization algorithms to the facility design a la nuSTORM

Wednesday, 20 May 2015 16:30 (30 minutes)

Presenter: Dr LIU, Ao (Fermilab)

Session Classification: Muon Storage Ring Technology