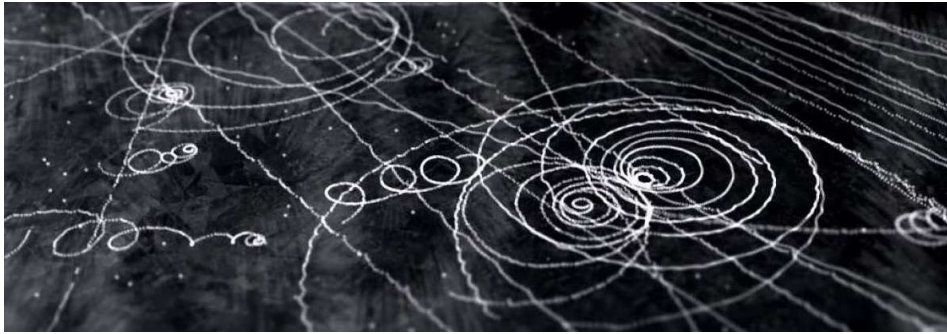


# **Muon Collider - Preparatory Meeting**



## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

## Goal of the meeting

*Wednesday 10 April 2019 09:30 (15 minutes)*

**Presenter:** PASTRONE, Nadia (INFN)

**Session Classification:** EU Strategy

Contribution ID: 2

Type: **not specified**

## Goal of the EU Strategy

*Wednesday 10 April 2019 09:45 (30 minutes)*

**Presenter:** RIVKIN, Lenny (Paul Scherrer Institut (CH))

**Session Classification:** EU Strategy

Contribution ID: 3

Type: **not specified**

## Obvious Physics at the Muon Collider

*Wednesday 10 April 2019 10:15 (25 minutes)*

**Presenter:** WULZER, Andrea (CERN)

**Session Classification:** Physics

Contribution ID: 4

Type: **not specified**

## Less Obvious Physics at the Muon Collider

*Wednesday 10 April 2019 10:40 (20 minutes)*

**Presenter:** MELE, Barbara (Sapienza Universita e INFN, Roma I (IT))

**Session Classification:** Physics

Contribution ID: 5

Type: **not specified**

## **BSM Benchmarks: few results and many ideas**

*Wednesday 10 April 2019 11:30 (20 minutes)*

**Presenter:** BUTTAZZO, Dario (Universität Zürich)

**Session Classification:** Physics

Contribution ID: 6

Type: **not specified**

## Higgs 4-linear

*Wednesday 10 April 2019 11:50 (20 minutes)*

**Presenter:** CHIESA, Mauro (Università di Pavia e INFN Sezione di Pavia (IT))

**Session Classification:** Physics

Contribution ID: 7

Type: **not specified**

## **Madgraph5\_aMC@NLO simulation for the muon collider**

*Wednesday 10 April 2019 12:10 (20 minutes)*

**Presenter:** ZHAO, Xiaoran

**Session Classification:** Physics



Contribution ID: 8

Type: **not specified**

## Discussion

*Wednesday 10 April 2019 12:30 (15 minutes)*

**Session Classification:** Physics

Contribution ID: 9

Type: **not specified**

## **Physics simulations at High Energy Lepton Colliders**

*Wednesday 10 April 2019 14:50 (30 minutes)*

**Presenter:** ROLOFF, Philipp (CERN)

**Session Classification:** Physics

Contribution ID: **10**

Type: **not specified**

## Discussion

**Session Classification:** Physics

Contribution ID: 11

Type: **not specified**

## **What is different for a muon collider detector?**

*Wednesday 10 April 2019 15:20 (10 minutes)*

**Presenter:** LUCCHESI, Donatella (Universita e INFN, Padova (IT))

**Session Classification:** Detector

Contribution ID: 12

Type: **not specified**

## Discussion

**Session Classification:** Detector

Contribution ID: 13

Type: **not specified**

## **Muon Collider neutrino induced radiation hazard and FLUKA simulations**

*Wednesday 10 April 2019 15:30 (30 minutes)*

**Presenter:** SALA, Paola (CERN and INFN Milano)

**Session Classification:** Detector

Contribution ID: 14

Type: **not specified**

## Machine Background Studies

*Wednesday 10 April 2019 16:30 (20 minutes)*

**Presenter:** CASARSA, Massimo (INFN, Trieste (IT))

**Session Classification:** Detector

Contribution ID: 15

Type: **not specified**

## **Physics Studies with realistic detector at Muon Collider**

**Session Classification:** Detector



Contribution ID: 16

Type: **not specified**

## **Brief recap on machine**

*Wednesday 10 April 2019 14:00 (10 minutes)*

**Presenter:** PALMER, Mark (BNL)

**Session Classification:** Accelerator

Contribution ID: 17

Type: **not specified**

## **Magnet Considerations**

*Wednesday 10 April 2019 14:10 (25 minutes)*

**Presenter:** DE RIJK, Gijs (CERN)

**Session Classification:** Accelerator

Contribution ID: **18**

Type: **not specified**

## **Radiation considerations**

**Session Classification:** Accelerator

Contribution ID: **19**

Type: **not specified**

## Discussion

**Session Classification:** Accelerator

Contribution ID: 20

Type: **not specified**

## **Muon Collider Accelerator Strategy**

*Thursday 11 April 2019 09:00 (35 minutes)*

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

**Session Classification:** Accelerator

Contribution ID: 21

Type: **not specified**

## **Muon Collider Based on Proton Source**

*Thursday 11 April 2019 09:35 (35 minutes)*

**Presenter:** PALMER, Mark (BNL)

**Session Classification:** Accelerator

Contribution ID: 22

Type: **not specified**

## **LEMMA overview and parameters**

*Thursday 11 April 2019 10:10 (35 minutes)*

**Presenter:** VARIOLA, Alessandro

**Session Classification:** Accelerator

Contribution ID: 23

Type: **not specified**

## Discussion

*Thursday 11 April 2019 10:45 (15 minutes)*

**Session Classification:** Accelerator



Contribution ID: 24

Type: **not specified**

## **MICE: results and considerations**

*Thursday 11 April 2019 11:30 (25 minutes)*

**Presenter:** SOLER JERMYN, Paul (University of Glasgow (GB))

**Session Classification:** Accelerator

Contribution ID: 25

Type: **not specified**

## Proton driver considerations

*Thursday 11 April 2019 11:55 (20 minutes)*

**Presenter:** CARLI, Christian (CERN)

**Session Classification:** Accelerator

Contribution ID: 26

Type: **not specified**

## Site and Civil Engineering considerations

*Thursday 11 April 2019 12:15 (20 minutes)*

**Presenters:** OSBORNE, John Andrew (CERN); ROBERT, Youri (CERN)

**Session Classification:** Accelerator

Contribution ID: 27

Type: **not specified**

## Discussion

*Thursday 11 April 2019 12:35 (10 minutes)*

**Session Classification:** Accelerator

Contribution ID: 28

Type: **not specified**

## **Muon production and cooling considerations**

**Session Classification:** Accelerator

Contribution ID: 29

Type: **not specified**

## **Fast acceleration of muons**

*Thursday 11 April 2019 14:00 (25 minutes)*

**Presenter:** SHILTSEV, Vladimir (Fermilab)

**Session Classification:** Accelerator

Contribution ID: **30**

Type: **not specified**

## **Collider Ring**

*Thursday 11 April 2019 14:25 (25 minutes)*

**Presenter:** PALMER, Mark (BNL)

**Session Classification:** Accelerator

Contribution ID: 31

Type: **not specified**

## **Potentiality of a muon beam: Higgs factory and neutrino factory**

*Thursday 11 April 2019 15:10 (20 minutes)*

**Presenter:** LONG, Kenneth Richard (Imperial College (GB))

**Session Classification:** Accelerator



Contribution ID: **32**

Type: **not specified**

## **Discussion**

*Thursday 11 April 2019 15:30 (30 minutes)*

**Session Classification:** Accelerator

Contribution ID: 33

Type: **not specified**

## **Accelerator: R&D prospects and future plans**

*Thursday 11 April 2019 16:30 (1h 10m)*

**Presenter:** PALMER, Mark (BNL)

**Session Classification:** R&D prospects and future plans

Contribution ID: **34**

Type: **not specified**

## **Physics/Detector: R&D prospects and future plans**

*Thursday 11 April 2019 17:40 (20 minutes)*

**Session Classification:** R&D prospects and future plans

Contribution ID: 35

Type: **not specified**

## **Wrap up amd meeting closing**

*Thursday 11 April 2019 18:00 (30 minutes)*

**Session Classification:** R&D prospects and future plans

Contribution ID: **36**

Type: **not specified**

## Discussion

*Wednesday 10 April 2019 14:35 (15 minutes)*

**Session Classification:** Accelerator

Contribution ID: 37

Type: **not specified**

## **Detector performances and Object reconstruction**

*Wednesday 10 April 2019 16:50 (20 minutes)*

**Presenter:** BARTOSIK, Nazar (Universita e INFN Torino (IT))

**Session Classification:** Detector

Contribution ID: **38**

Type: **not specified**

## **Physics Studies with realistic detector**

*Wednesday 10 April 2019 17:10 (20 minutes)*

**Presenter:** SESTINI, Lorenzo (Universita e INFN, Padova (IT))

**Session Classification:** Detector

Contribution ID: 39

Type: **not specified**

## Discussion

*Wednesday 10 April 2019 17:30 (1 hour)*

**Session Classification:** Detector



Contribution ID: 40

Type: **not specified**

## **RF technology challenges discussion**

*Thursday 11 April 2019 14:50 (20 minutes)*

**Presenter:** GRUDIEV, Alexej (CERN)

**Session Classification:** Accelerator

Contribution ID: 41

Type: **not specified**

## **The initial acceleration of the muons**

**Session Classification:** Accelerator