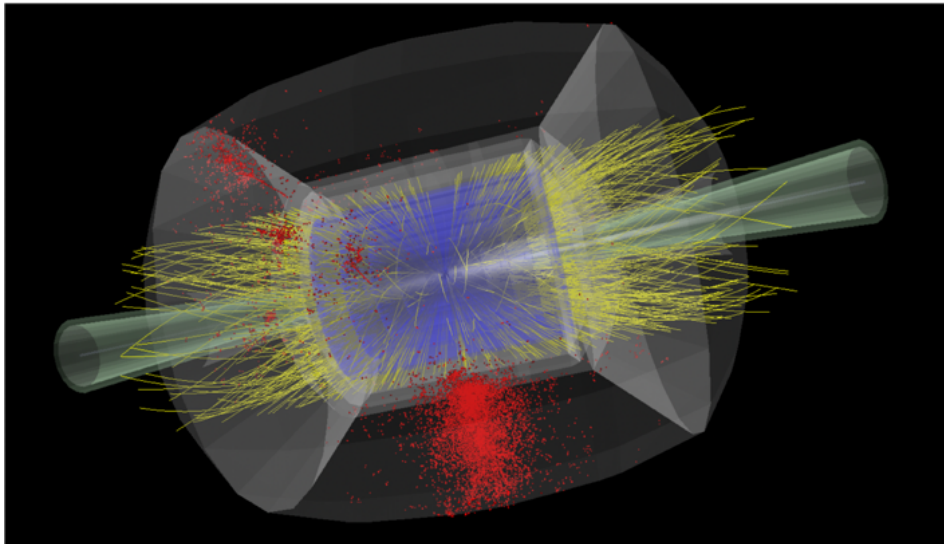


Muon Collider Working Meeting 2020



Report of Contributions

Contribution ID: 1

Type: **not specified**

Welcome

Contribution ID: 2

Type: **not specified**

News and goal of the workshop

Tuesday 31 March 2020 14:00 (10 minutes)

Presenter: PASTRONE, Nadia (Universita e INFN Torino (IT))

Contribution ID: 3

Type: **not specified**

Brief introduction

Thursday 2 April 2020 14:00 (10 minutes)

Contribution ID: 4

Type: **not specified**

Brief introduction

Contribution ID: 5

Type: **not specified**

Discussion

Contribution ID: 6

Type: **not specified**

Brief introduction

Tuesday 31 March 2020 14:10 (20 minutes)

Presenter: WULZER, Andrea (CERN and EPFL)

Contribution ID: 7

Type: **not specified**

CLIC @ 3 TeV: physics analysis

Tuesday 31 March 2020 14:30 (25 minutes)

Presenter: VOS, Marcel (IFIC Valencia (ES))

Session Classification: Physics @ 3 TeV and @ energy frontier

Contribution ID: 8

Type: **not specified**

Physics potential of CLIC @ 3TeV: perspectives towards higher energies

Tuesday 31 March 2020 14:55 (25 minutes)

Presenter: RIEMBAU, Marc (Université de Genève)

Session Classification: Physics @ 3 TeV and @ energy frontier

Contribution ID: 9

Type: **not specified**

Physics at a multi-TeV muon Collider

Tuesday 31 March 2020 15:20 (25 minutes)

Presenter: COSTANTINI, Antonio (INFN)

Session Classification: Physics @ 3 TeV and @ energy frontier

Contribution ID: **10**

Type: **not specified**

Higgs potential: 4-linear self coupling

Tuesday 31 March 2020 15:45 (25 minutes)

Presenter: CHIESA, Mauro (CNRS LAPTh, Annecy)

Session Classification: Physics @ 3 TeV and @ energy frontier

Contribution ID: 11

Type: **not specified**

H->bb coupling precision measurement at a muon collider

Tuesday 31 March 2020 16:10 (20 minutes)

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

Session Classification: Physics @ 3 TeV and @ energy frontier

Contribution ID: 12

Type: **not specified**

Probing heavy neutrinos at muon colliders

Tuesday 31 March 2020 16:30 (15 minutes)

Presenter: Dr BAGLIO, Julien (CERN)

Session Classification: Physics @ 3 TeV and @ energy frontier

Contribution ID: 13

Type: **not specified**

Discussion - next steps

Tuesday 31 March 2020 17:00 (20 minutes)

Session Classification: Physics @ 3 TeV and @ energy frontier

Contribution ID: 14

Type: **not specified**

Status of experiment/mdi studies

Session Classification: Experiment design - Luminosity measurement - MDI

Contribution ID: 15

Type: **not specified**

Discussion - next steps

Tuesday 31 March 2020 18:15 (25 minutes)

Session Classification: Experiment design - Luminosity measurement - MDI

Contribution ID: **16**

Type: **not specified**

Wrap-up of the day

Tuesday 31 March 2020 18:40 (20 minutes)

Contribution ID: 17

Type: **not specified**

Strategy on experiment/MDI studies

Tuesday 31 March 2020 17:20 (10 minutes)

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

Session Classification: Experiment design - Luminosity measurement - MDI

Contribution ID: **18**

Type: **not specified**

Tracking studies

Tuesday 31 March 2020 17:30 (15 minutes)

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

Session Classification: Experiment design - Luminosity measurement - MDI

Contribution ID: **19**

Type: **not specified**

Calorimeter and jet reconstruction studies

Tuesday 31 March 2020 17:45 (15 minutes)

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

Session Classification: Experiment design - Luminosity measurement - MDI

Contribution ID: 20

Type: **not specified**

Reconstruction of 4 b-jets event at muon collider

Tuesday 31 March 2020 18:00 (15 minutes)

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

Session Classification: Experiment design - Luminosity measurement - MDI

Contribution ID: 21

Type: **not specified**

Parameters at different energies

Wednesday 1 April 2020 14:00 (30 minutes)

Presenter: SCHULTE, Daniel (CERN)

Session Classification: Muon Collider: key issues and priority plan

Contribution ID: 22

Type: **not specified**

Discussion on key issues

Wednesday 1 April 2020 14:40 (10 minutes)

Session Classification: Muon Collider: key issues and priority plan

Contribution ID: 23

Type: **not specified**

Civil engineering considerations on existing tunnels (SPS - LHC)

Wednesday 1 April 2020 14:50 (20 minutes)

Presenter: ROBERT, Yuri (CERN)

Session Classification: Muon Collider: key issues and priority plan

Contribution ID: 24

Type: **not specified**

Muon radiation simulations

Wednesday 1 April 2020 15:10 (30 minutes)

Presenter: SALA, Paola (INFN Milano (IT))

Session Classification: Muon Collider: key issues and priority plan

Contribution ID: 25

Type: **not specified**

Discussion

Wednesday 1 April 2020 15:40 (10 minutes)

Session Classification: Muon Collider: key issues and priority plan

Contribution ID: 26

Type: **not specified**

MAP muon source

Wednesday 1 April 2020 16:10 (30 minutes)

Presenter: NEUFFER, David

Session Classification: Muon Collider: key issues and priority plan

Contribution ID: 27

Type: **not specified**

Cooling status - new ideas after MICE

Wednesday 1 April 2020 16:40 (30 minutes)

Presenter: ROGERS, Chris (STFC)

Session Classification: Muon Collider: key issues and priority plan

Contribution ID: 28

Type: **not specified**

Frictional Cooling for a Muon Collider

Wednesday 1 April 2020 17:10 (20 minutes)

Presenter: CALDWELL, Allen (Max-Planck-Institut fur Physik (DE))

Session Classification: Muon Collider: key issues and priority plan

Contribution ID: **30**

Type: **not specified**

Strong hadron cooling techniques to muon cooling

Wednesday 1 April 2020 17:30 (20 minutes)

Presenter: LITVINENKO, Vladimir

Session Classification: Muon Collider: key issues and priority plan

Contribution ID: **31**

Type: **not specified**

Wrap-up of the day

Wednesday 1 April 2020 18:00 (20 minutes)

Presenter: DELAHAYE, Jean-Pierre

Session Classification: Muon Collider: key issues and priority plan

Contribution ID: **32**

Type: **not specified**

LEMMA update

Thursday 2 April 2020 14:10 (25 minutes)

Presenter: VARIOLA, Alessandro

Session Classification: Muon Collider: key issues and priority plans

Contribution ID: 33

Type: **not specified**

Theoretical model for the evaluation of the thermal stability of solid targets in a low emittance muon collider

Thursday 2 April 2020 14:35 (20 minutes)

Presenter: LI VOTI, Roberto (Universita' Roma 1 - INFN-RM1)

Session Classification: Muon Collider: key issues and priority plans

Contribution ID: 34

Type: **not specified**

Channeling Radiation for Muon Collider

Thursday 2 April 2020 15:15 (15 minutes)

Presenter: BANDIERA, Laura (Universita e INFN, Ferrara (IT))

Session Classification: Muon Collider: key issues and priority plans

Contribution ID: 35

Type: **not specified**

HTS magnets

Thursday 2 April 2020 15:45 (30 minutes)

Presenter: SCHOERLING, Daniel (CERN)

Session Classification: Muon Collider: key issues and priority plans

Contribution ID: 36

Type: **not specified**

Positron source performances

Thursday 2 April 2020 14:55 (20 minutes)

Presenter: Dr CHAIKOVSKA, Iryna (CNRS/LAL)

Session Classification: Muon Collider: key issues and priority plans

Contribution ID: 37

Type: **not specified**

Possible contributions of CEA DACM to a muon collider study

Thursday 2 April 2020 16:15 (25 minutes)

Presenter: Dr CHANCE, Antoine (CEA Irfu)

Session Classification: Muon Collider: key issues and priority plans

Contribution ID: **38**

Type: **not specified**

Crystals for applications in a muon collider

Thursday 2 April 2020 15:30 (15 minutes)

Presenter: MAZZOLARI, Andrea (Universita e INFN, Ferrara (IT))

Session Classification: Muon Collider: key issues and priority plans

Contribution ID: 39

Type: **not specified**

Discussion

Wednesday 1 April 2020 17:50 (10 minutes)

Session Classification: Muon Collider: key issues and priority plan

Contribution ID: 40

Type: **not specified**

Plan document - to be discussed

Wednesday 1 April 2020 14:30 (10 minutes)

Session Classification: Muon Collider: key issues and priority plan