

nuSTORM - the next steps

Report of Contributions

Contribution ID: 1

Type: **not specified**

Introduction

Session Classification: Introduction

Contribution ID: 2

Type: **not specified**

Next steps and close-out

Session Classification: Next steps and close-out

Contribution ID: 3

Type: **not specified**

Introduction to Session 3: nuSTORM facility

Outline of the session in terms of agenda, aims and objectives.

Presenters: GALL, Jonathan (CERN); LONG, Kenneth Richard (Imperial College (GB))

Session Classification: nuSTORM facility

Contribution ID: 4

Type: **not specified**

Introduction to Session 3: nuSTORM facility

Tuesday 22 October 2019 09:15 (10 minutes)

Outline of the session in terms of agenda, aims and objectives.

Presenters: GALL, Jonathan (CERN); LONG, Kenneth Richard (Imperial College (GB))

Session Classification: nuSTORM facility

Contribution ID: 5

Type: **not specified**

Extraction and beam transfer

Tuesday 22 October 2019 09:25 (20 minutes)

Plans for extraction and beam transfer and beam parameters etc

Presenter: BARTMANN, Wolfgang (CERN)

Session Classification: nuSTORM facility

Contribution ID: 6

Type: **not specified**

Target Complex and Capture

Tuesday 22 October 2019 09:45 (30 minutes)

Existing proposal, Key considerations, Similar facilities at CERN and CERN knowledge base, discussion of next steps

Presenters: Dr HUNT, Christopher John (CERN BE-ABP); CALVIANI, Marco (CERN)

Session Classification: nuSTORM facility

Contribution ID: 7

Type: **not specified**

Storage Ring Design

Tuesday 22 October 2019 10:15 (25 minutes)

Proposed design of the muon storage ring and key parameters and considerations driving the design

Presenters: PASTERNAK, Jaroslaw (Imperial College, London); PASTERNAK, Jaroslaw (European Organization for Nuclear Research (CERN))

Session Classification: nuSTORM facility

Contribution ID: 8

Type: **not specified**

RP Considerations for nuSTORM with reference to CERN

Tuesday 22 October 2019 11:00 (20 minutes)

Discussion of key RP considerations and the key factors in the design with reference to radiation protection safety.

Presenter: AHDIDA, Claudia Christina

Session Classification: nuSTORM facility

Contribution ID: 9

Type: **not specified**

Civil Engineering Implementation

Tuesday 22 October 2019 11:20 (20 minutes)

Overview of plans, design process, key considerations, cost drivers of civil engineering design.

Presenter: GALL, Jonathan (CERN)

Session Classification: nuSTORM facility

Contribution ID: **10**

Type: **not specified**

nuSTORM as part of Physics beyond colliders

Discussion of nuSTORM in the context of Physics Beyond Colliders

Presenter: LAMONT, Mike (CERN)

Session Classification: nuSTORM facility

Contribution ID: 11

Type: **not specified**

Future plans towards a muon collider

Tuesday 22 October 2019 11:45 (20 minutes)

Presentation of the current study looking at the potential for a muon collider (MC) at CERN. Discussion of synergies between nuSTORM and a MC and opportunities for mutual development of technologies.

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

Session Classification: Next steps and close-out

Contribution ID: 12

Type: **not specified**

Welcome, introduction, and goals for the meeting

Monday 21 October 2019 13:30 (15 minutes)

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

Session Classification: Introduction

Contribution ID: 13

Type: **not specified**

Overview: nuSTORM at CERN and the PBC study group

Monday 21 October 2019 13:45 (15 minutes)

Presenter: LAMONT, Mike (CERN)

Session Classification: Introduction

Contribution ID: 14

Type: **not specified**

Detector options considered for nuSTORM in the past

Monday 21 October 2019 16:00 (20 minutes)

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

Session Classification: Detector requirements

Contribution ID: 15

Type: **not specified**

Near detector options for DUNE: how can nuSTORM benefit?

Monday 21 October 2019 16:20 (20 minutes)

Presenters: DE ROECK, Albert (CERN); DE ROECK, Albert (CERN)

Session Classification: Detector requirements

Contribution ID: 16

Type: **not specified**

T2K/Hyper-K near detectors and options for nuSTORM

Monday 21 October 2019 16:40 (20 minutes)

Presenter: Dr DOLAN, Stephen Joseph (CERN)

Session Classification: Detector requirements

Contribution ID: 17

Type: **not specified**

Detectors for sterile neutrino searches at nuSTORM

Monday 21 October 2019 17:00 (20 minutes)

Presenter: Prof. LINK, Jonathan (Virginia Tech)

Session Classification: Detector requirements

Contribution ID: **18**

Type: **not specified**

Discussion

Monday 21 October 2019 17:20 (10 minutes)

Session Classification: Detector requirements

Contribution ID: 19

Type: **not specified**

Theoretical challenges in predicting neutrino-nucleus reactions

Monday 21 October 2019 14:50 (20 minutes)

Presenter: ROCCO, Noemi (Argonne National Laboratory)

Session Classification: Physics Case

Contribution ID: 20

Type: **not specified**

nuSTORM as a test bed for Muon Collider R&D

Monday 21 October 2019 14:25 (25 minutes)

Presenter: BOSCOLO, Manuela (INFN e Laboratori Nazionali di Frascati (IT))

Session Classification: Physics Case

Contribution ID: 21

Type: **not specified**

Current Status of Sterile Neutrinos

Monday 21 October 2019 14:00 (25 minutes)

Presenter: Dr ESTEBAN, Ivan (Universitat de Barcelona)

Session Classification: Physics Case

Contribution ID: 22

Type: **not specified**

Discussion

Tuesday 22 October 2019 11:40 (5 minutes)

Session Classification: nuSTORM facility

Contribution ID: 23

Type: **not specified**

Discussion

Tuesday 22 October 2019 12:05 (30 minutes)

Session Classification: Next steps and close-out

Contribution ID: 24

Type: **not specified**

Close-out

Tuesday 22 October 2019 12:35 (10 minutes)

Presenters: LONG, Kenneth Richard (Imperial College (GB)); LAMONT, Mike (CERN)

Session Classification: Next steps and close-out

Contribution ID: 25

Type: **not specified**

Dinner

Monday 21 October 2019 19:00 (1h 30m)

Contribution ID: 26

Type: **not specified**

Neutrino cross sections and neutrino physics

Monday 21 October 2019 15:10 (20 minutes)

Presenter: HUBER, Patrick

Session Classification: Physics Case