11th SHiP Collaboration Meeting

Report of Contributions

https://indico.cern.ch/e/638036
Introduction

Wednesday, 7 June 2017 09:00 (15 minutes)

Presenter: GOLUTVIN, Andrei (Imperial College London)
Physics Beyond Collider status and news

Wednesday, 7 June 2017 09:15 (20 minutes)

Presenter:  LAMONT, Mike (CERN)
Session Classification:  Facility
Extraction and beam delivery

Wednesday, 7 June 2017 09:40 (25 minutes)

Presenter: HESSLER, Christoph (CERN)
Session Classification: Facility
Target and target complex

Wednesday, 7 June 2017 10:10 (25 minutes)

Presenter: CALVIANI, Marco (CERN)
Session Classification: Facility
Radiological protection studies

Wednesday, 7 June 2017 11:00 (20 minutes)

Presenter: CASOLINO, Mirkoantonio (CERN)
Session Classification: Detector
Detector safety

Session Classification: Detector
Magnetization of hadron stopper

Wednesday, 7 June 2017 11:25 (20 minutes)

Presenter:  GILLEY, Geoff (STFC)
Session Classification:  Detector
Muon shield and acceptance

Wednesday, 7 June 2017 11:50 (20 minutes)

Presenter:  LANTWIN, Oliver (Imperial College (GB))
Session Classification:  Detector
Contribution ID: 9

Decay volume

Wednesday, 7 June 2017 16:40 (20 minutes)

Presenters: PROTA, Andrea (University of Naples "Federico II"); PROTA, Andrea

Session Classification: Detector
Current status of the nu_tau/LDM detector

Wednesday, 7 June 2017 14:00 (20 minutes)

**Presenter:**  DE LELLIS, Giovanni (Universita e INFN, Napoli (IT))

**Session Classification:**  Detector
Studies of the nu_tau/LDM target with and without magnetic field

Wednesday, 7 June 2017 14:25 (20 minutes)

Presenter:  BUONAURA, Annarita (Universita e INFN, Napoli (IT))

Session Classification:  Detector
Future test beam activities of the nu_tau/LDM detector

Wednesday, 7 June 2017 15:10 (20 minutes)

Presenters: TIOUKOV, Valeri (Universita e INFN, Napoli (IT)); TIOUKOV, Valeri (INFN NAPOLI)

Session Classification: Detector
RPC as course tracker for the upstream muon spectrometer

Wednesday, 7 June 2017 16:00 (15 minutes)

Presenter: SIMONE, Saverio (Universita e INFN, Bari (IT))

Session Classification: Detector
Surround Background Tagger status

Wednesday, 7 June 2017 16:20 (15 minutes)

**Presenter:** LACKER, Heiko Markus (Humboldt-Universitaet zu Berlin (DE))

**Session Classification:** Detector
Straw Tracker status and prototyping

Wednesday, 7 June 2017 17:05 (20 minutes)

Presenters:  BICK, Daniel (Universität Hamburg); FERRO-LUZZI, Massimiliano (CERN)

Session Classification: Detector
Timing detector - pastic scintillator option status

Wednesday, 7 June 2017 17:30 (20 minutes)

Presenter: BRUNDLER DENZER, Ruth (Universitaet Zuerich (CH))
Session Classification: Detector
Timing detector - MRPC option status (TBC)

Session Classification: Detector
Contribution ID: 18  

**Calorimetry**  
*Thursday, 8 June 2017 09:00 (25 minutes)*

**Presenters:**  WANKE, Rainer (Universität Mainz);  Dr BONIVENTO, Walter Marcello (INFN Cagliari)  

**Session Classification:**  Detector
Muon detector status

Thursday, 8 June 2017 09:30 (15 minutes)

Presenter: LANFRANCHI, Gaia (INFN e Laboratori Nazionali di Frascati (IT))

Session Classification: Detector
Contribution ID: 20

Type: not specified

DAQ

Thursday, 8 June 2017 09:50 (20 minutes)

Presenter: LEHMANN MIOTTO, Giovanna (CERN)

Session Classification: Detector
Software and simulation status

Thursday, 8 June 2017 10:15 (10 minutes)

Presenter: RUF, Thomas (CERN)
Session Classification: Detector
Muon shield optimization procedure at Yandex

Thursday, 8 June 2017 10:30 (15 minutes)

Presenter: LANTWIN, Oliver (Imperial College (GB))

Session Classification: Detector
Development of machine learning methods for reconstructing e.m. showers in emulsion

Thursday, 8 June 2017 12:10 (20 minutes)

Presenter: USTYUZHANIN, Andrey (Yandex School of Data Analysis (RU))

Session Classification: Detector
News from tracking

Thursday, 8 June 2017 11:15 (15 minutes)

Presenter: KUZNETSOVA, Katerina (Petersburg Nuclear Physics Institut (RU))
Session Classification: Detector
Liquid scintillator implementation, update

Thursday, 8 June 2017 14:00 (15 minutes)

Presenter: VENKOVA, Plamenna (Humboldt-Universitaet zu Berlin (DE))
Session Classification: Detector
Plastic scintillator implementation, update

*Thursday, 8 June 2017 14:15 (15 minutes)*

**Presenter:** PROKUDIN, Mikhail (Institute for Theoretical and Experimental Physics (RU))

**Session Classification:** Detector
Contribution ID: 27

Type: not specified

News

Thursday, 8 June 2017 14:30 (10 minutes)

Presenter: SERRA, Nicola (Universitaet Zuerich (CH))

Session Classification: Physics
Contribution ID: 28  
Type: not specified

”The U boson as a generalized dark photon”

Thursday, 8 June 2017 14:40 (40 minutes)

Presenter: FAYET, Pierre

Session Classification: Physics
Adding Dark Photon to FairSHiP

Thursday, 8 June 2017 15:25 (15 minutes)

Presenters: MAGNAN, Anne-Marie (Imperial College (GB)); MAGNAN, Anne-Marie (Imperial College (GB))

Session Classification: Physics
Update of HNLs and Scalar Portal in FairSHiP

*Thursday, 8 June 2017 16:35 (20 minutes)*

**Presenters:** BOIARSKYI, Alexey (National Taras Shevchenko Univ. of Kyiv (UA)); BONDARENKO, Kyrylo; RUCHAYSKIY, Oleg (University of Copenhagen (DK))

**Session Classification:** Physics
Geant4 R&D for dark matter and neutrino physics

Thursday, 8 June 2017 17:00 (15 minutes)

**Presenters:** POLUKHINA, Natalia (Russian Academy of Sciences (RU)); STARKOV, Nikolai (Russian Academy of Sciences (RU)); GRICHINE, Vladimir (Russian Academy of Sciences (RU))

**Session Classification:** Physics
Muon combinatorial background

Thursday, 8 June 2017 17:20 (20 minutes)

Presenter: LANTWIN, Oliver (Imperial College (GB))
Session Classification: Physics
Muon inelastic background studies

Thursday, 8 June 2017 17:45 (20 minutes)

Presenter: VENKOVA, Plamenna (Humboldt-Universität zu Berlin (DE))

Session Classification: Physics
Neutrino background studies

*Thursday, 8 June 2017 18:10 (20 minutes)*

**Presenter:** BEZSHYIKO, Iaroslava (Universitaet Zuerich (CH))

**Session Classification:** Physics
Status of muon flux proposal

Friday, 9 June 2017 09:00 (20 minutes)

Presenter:  VAN HERWIJNEN, Eric (CERN)
Session Classification:  Collaboration
Status of charm cross-section measurement

Friday, 9 June 2017 09:25 (20 minutes)

Presenter: DI CRESCENZO, Antonia (Universita e INFN, Napoli (IT))

Session Classification: Collaboration
Use of drift tubes in the muon flux and charm cross-section measurement

Friday, 9 June 2017 09:50 (15 minutes)

Presenter:  BICK, Daniel (Universität Hamburg)
Session Classification:  Collaboration
Use of SciFi in charm cross-section measurement (TBC)

Session Classification: Collaboration
Summary physics and plans

Friday, 9 June 2017 11:00 (20 minutes)

Presenter: SERRA, Nicola (Universitaet Zuerich (CH))
Session Classification: Collaboration
Summary detector and plans

Friday, 9 June 2017 11:25 (20 minutes)

Presenter:  JACOBSSON, Richard (CERN)
Session Classification:  Collaboration
Contribution ID: 41
Type: not specified

Conference and publications

Friday, 9 June 2017 11:50 (10 minutes)

Presenter: BONIVENTO, Walter Marcello (INFN Cagliari)
Session Classification: Collaboration
CRB report

Friday, 9 June 2017 12:05 (10 minutes)

Presenter: VAN HERWIJNEN, Eric (CERN)
Session Classification: Collaboration
Contribution ID: 43
Type: not specified

Wrap up

Friday, 9 June 2017 12:20 (10 minutes)

Presenter: GOLUTVIN, Andrei (Imperial College London)
Session Classification: Collaboration
Implementation of new track pattern recognition methods into FairShip

Thursday, 8 June 2017 11:35 (15 minutes)

Presenter: HUSHCHYN, Mikhail (Yandex School of Data Analysis (RU))

Session Classification: Detector
Results on compact emulsion spectrometer

Wednesday, 7 June 2017 14:50 (15 minutes)

Presenter: KOMATSU, Masahiro (Nagoya University (JP))
Session Classification: Detector
Muon shield prototyping

Wednesday, 7 June 2017 12:15 (10 minutes)

Presenter:  DIJKSTRA, Hans (CERN)
Session Classification:  Detector
HNL vertex fit

Thursday, 8 June 2017 11:55 (10 minutes)

Presenter: KOROL, Ievgen (Humboldt-Universitaet zu Berlin (DE))
Session Classification: Detector
LDM Production at SHiP

Thursday, 8 June 2017 16:15 (15 minutes)

Presenters: TIMRYASOV, Inar (EPFL); RUCHAYSKIY, Oleg (University of Copenhagen (DK))

Session Classification: Physics