8th SHiP Collaboration meeting, Imperial College London

Report of Contributions
News and objectives of the meeting

Presenter: GOLUTVIN, Andrei (Imperial College London)
Session Classification: Session 1
Plans of the Beyond Collider Physics study group

Presenter: LAMONT, Mike (CERN)
Session Classification: Session 1
SPS proton sharing in the future

**Presenter:** ARDUINI, Gianluigi (CERN)

**Session Classification:** Session 1
Update on beam delivery and SPS extraction studies

Presenter: FRASER, Matthew Alexander (CERN)
Session Classification: Session 1
News and objectives of the meeting

Monday, 13 June 2016 14:00 (15 minutes)

Presenter: GOLUTVIN, Andrei (Imperial College London)
Plans of the Beyond Collider Physics study group

Monday, 13 June 2016 14:15 (20 minutes)

Presenter: LAMONT, Mike (CERN)
Session Classification: Session 1
SPS proton sharing in the future

Monday, 13 June 2016 14:40 (20 minutes)

Summary

Presenters: ARDUINI, Gianluigi (CERN); BARTOSIK, Hannes (CERN)
Session Classification: Session 1
Update on beam delivery and SPS extraction studies

Monday, 13 June 2016 15:05 (20 minutes)

Presenter: FRASER, Matthew Alexander (CERN)
Session Classification: Session 1
Detector session intro

Presentor: JACOBSSON, Richard (CERN)
Session Classification: Session 2
Muon shield intro

Monday, 13 June 2016 16:00 (10 minutes)

Presenter: PATEL, Mitesh (Imperial College Sci., Tech. & Med. (GB))
Session Classification: Session 2
Muon shield and geometry reoptimization

Monday, 13 June 2016 16:10 (20 minutes)

Presenter: DIJKSTRA, Hans (CERN)
Session Classification: Session 2
Experience with magnetizing target region (TBC)

Session Classification: Session 2
Status of magnetic models for muon shield

Session Classification: Session 2
Status of magnetic models for muon shield

Monday, 13 June 2016 16:35 (20 minutes)

Presenter: BAYLISS, Victoria (STFC)
Session Classification: Session 2
Acceptance studies and plans for muon shield optimisation

Monday, 13 June 2016 17:10 (20 minutes)

Presenter: LANTWIN, Oliver (Imperial College Sci., Tech. & Med. (GB))

Session Classification: Session 2
Update on neutrino background

Tuesday, 14 June 2016 08:30 (25 minutes)

Presenter: BEZSHYIKO, Iaroslava (Universitaet Zuerich (CH))
Session Classification: Session 3
Helium bag option for decay volume

*Tuesday, 14 June 2016 09:00 (20 minutes)*

**Presenters:** BARBER, Geoff (Imperial College London); BARBER, Geoffrey John (Imperial College Sci., Tech. & Med. (GB))

**Session Classification:** Session 3
Vacuum options for decay volume

Tuesday, 14 June 2016 09:25 (20 minutes)

Summary

Presenter: MALININ, Alexander (National Research Centre Kurchatov Institute (RU))
Session Classification: Session 3
SBT/UVT - Plastic scintillator option

Tuesday, 14 June 2016 09:50 (20 minutes)

Presenter: KORZENEV, Alexander (Universite de Geneve (CH))
Session Classification: Session 3
SBT/UVT : Liquid scintillator option

*Tuesday, 14 June 2016 10:15* (15 minutes)

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

**Session Classification:** Session 3
News and progress in SHiPId

*Tuesday, 14 June 2016 11:00 (25 minutes)*

**Presenter:** BONIVENTO, Walter Marcello (INFN Cagliari)

**Session Classification:** Session 4
PID performance in FairShiP with real HNL and DP decays

*Tuesday, 14 June 2016 11:30 (20 minutes)*

Presenters: HOSSEINI, Behzad (University and INFN Naples); HOSSEINI, Behzad (INFN - Cagliari)

Session Classification: Session 4
CALO Status and new ideas

Tuesday, 14 June 2016 11:55 (20 minutes)

Summary

**Presenter:** VILLA, Mauro (University of Bologna)

**Session Classification:** Session 4
MUON Status

Tuesday, 14 June 2016 12:20 (20 minutes)

Presenter: LANFRANCHI, Gaia (Istituto Nazionale Fisica Nucleare Frascati (IT))
Session Classification: Session 4
MUON 1 (Title TBC)

Session Classification: Session5
Contribution ID: 26

Type: not specified

MUON 2 (Title TBC)

Session Classification: Session5
Spectrometer Straw Tracker - Test beams

Tuesday, 14 June 2016 14:10 (20 minutes)

Presenter: KUZNETSOVA, Katerina (KIT - Karlsruhe Institute of Technology (DE))

Session Classification: Session5
Contribution ID: 28

Spectrometer Timing Detector - Plastic scintillator option

Tuesday, 14 June 2016 14:35 (20 minutes)

Presenter: MERMOD, Philippe (Université de Genève (CH))

Session Classification: Session5
8th SHiP Collaboration / Report of Contributions

Contribution ID: 29
Type: not specified

Spectrometer Timing Detector - MRPC option
Tuesday, 14 June 2016 15:00 (10 minutes)

Presenter: FONTE, Paulo
Session Classification: Session5
DAQ system

Session Classification: Session6
Configuration of the tau neutrino detector

Tuesday, 14 June 2016 15:45 (20 minutes)

Presenter: BUONAURA, Annarita (Universita e INFN, Napoli (IT))
Session Classification: Session6
Analysis of test-beam data  GEM group

Session Classification:  Session6
Analysis of nuclear emulsion test-beam data

Tuesday, 14 June 2016 16:10 (20 minutes)

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

Session Classification:  Session6
Contribution ID: 34

Type: not specified

DAQ system

Session Classification: Session6
 Contribution ID: 35  
 Type: not specified

**DAQ system**

**Session Classification:** Session6
DAQ system

Tuesday, 14 June 2016 17:15 (10 minutes)

**Presenter:** XELLA, Stefania (University of Copenhagen (DK))

**Session Classification:** Session6
Physics intro

Presenter: SERRA, Nicola (Universitaet Zuerich (CH))
Session Classification: Session7
News from theory

Wednesday, 15 June 2016 09:10 (30 minutes)

Presenter: BOIARSKYI, Oleksii (Leiden University (NL))
Session Classification: Session7
Summary of Dark Sector Workshop at SLAC

Wednesday, 15 June 2016 09:40 (30 minutes)

Presenters: GOLUTVIN, Andrei (Imperial College London); LANFRANCHI, Gaia (Istituto Nazionale Fisica Nucleare Frascati (IT))

Session Classification: Session7
Hidden particle simulation and sensitivity

Wednesday, 15 June 2016 10:10 (20 minutes)

Summary

Presenter: PETRIDIS, Konstantinos (University of Bristol (GB))
Session Classification: Session7

December 2, 2022
Optimization of identification of HNL signal

Wednesday, 15 June 2016 11:15 (20 minutes)

Presenter: BAXTER, Samuel (University of Copenhagen (DK))
Session Classification: Session 8
Using NA61 to measure muon flux

Wednesday, 15 June 2016 11:40 (20 minutes)

Presenter: VAN HERWIJNEN, Eric (CERN)
Session Classification: Session 8
Measurement of charm differential cross-section

Wednesday, 15 June 2016 12:05 (20 minutes)

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

Session Classification: Session 8
Contribution ID: 44

CRB Report

Wednesday, 15 June 2016 15:45 (15 minutes)

Presenter: VAN HERWIJNEN, Eric (CERN)
Close-out

Wednesday, 15 June 2016 16:05 (15 minutes)

Presenter: GOLUTVIN, Andrei (Imperial College London)
Plans towards the paper on SHiP optimization

Wednesday, 15 June 2016 14:00 (20 minutes)

Presenter: SERRA, Nicola (Universitaet Zuerich (CH))
Session Classification: Session 9
Discussion

Wednesday, 15 June 2016 14:20 (20 minutes)

Session Classification: Session 9
Project status and plans

Wednesday, 15 June 2016 14:40 (20 minutes)

Presenter: JACOBSSON, Richard (CERN)
Session Classification: Session 9
Contribution ID: 49

**Discussion**

*Wednesday, 15 June 2016 15:00 (15 minutes)*

**Session Classification:** Session 9
Possibilities of using NA62 in beam dump mode

Wednesday, 15 June 2016 12:30 (20 minutes)

Summary

Presenter: LANFRANCHI, Gaia (Istituto Nazionale Fisica Nucleare Frascati (IT))
Session Classification: Session 8
Spectrometer Straw Tracker status

Tuesday, 14 June 2016 14:00 (5 minutes)

Presenter:  FERRO-LUZZI, Massimiliano (CERN)

Session Classification:  Session5
Optimization of HNL selection

Wednesday, 15 June 2016 10:30 (15 minutes)

Session Classification: Session7
RPC chambers for the muon spectrometer

Tuesday, 14 June 2016 16:55 (15 minutes)

**Presenter:** IASELLI, Giuseppe (Università e INFN, Bari (IT))

**Session Classification:** Session6
Use of emulsion shifter for the neutrino target

*Tuesday, 14 June 2016 16:35 (15 minutes)*

**Presenters:** KOMATSU, Masahiro (Nagoya University (JP)); TAKAHASHI, Saturo

**Session Classification:** Session6
Target R&D plans

Monday, 13 June 2016 17:00 (10 minutes)

Presenter: CALVIANI, Marco (CERN)
Session Classification: Session 2