

9th SHiP Collaboration Meeting

Report of Contributions

Contribution ID: 0

Type: **not specified**

New phase of SHiP optimization

Presenter: GOLUTVIN, Andrei (Imperial College London)

Session Classification: Detector session 1

Contribution ID: 1

Type: **not specified**

News on physics and sensitivity studies

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

Contribution ID: 2

Type: **not specified**

Progress with tau neutrino detector

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

Contribution ID: 3

Type: **not specified**

Upstream tagger and Timing detector

Presenter: KORZENEV, Alexander (Universite de Geneve (CH))

Contribution ID: 4

Type: **not specified**

Plans towards TDR

Presenter: JACOBSSON, Richard (CERN)

Contribution ID: 5

Type: **not specified**

CRB meeting

Contribution ID: 8

Type: **not specified**

Hidden sector searches using displaced decays in ATLAS

Presenter: MERMOD, Philippe (Universite de Geneve (CH))

Contribution ID: 9

Type: **not specified**

Hidden Sector searches in the CMS experiment

Presenters: SHCHUTSKA, Lesya (University of Florida (US)); TITOV, Maxim (CEA Saclay)

Contribution ID: **10**

Type: **not specified**

Searches for heavy neutrinos, long lived particles, etc, at LHCb

Presenter: DETTORI, Francesco (CERN)

Contribution ID: 11

Type: **not specified**

Constraining the Dark Sector at Belle (2)

Presenter: GOLOB, Bostjan

Contribution ID: 12

Type: **not specified**

Results and prospects from NA48 and NA62

Presenter: GOUDZOVSKI, Evgueni (University of Birmingham)

Contribution ID: 13

Type: **not specified**

The Heavy Photon Search experiment at Jefferson Lab

Presenter: GUIDAL, Michel (CNRS)

Contribution ID: 14

Type: **not specified**

P348: search for new physics in missing energy events

Presenter: GNINENKO, Sergei (Russian Academy of Sciences (RU))

Contribution ID: 15

Type: **not specified**

Search for dark photon in positron annihilations at Frascati: the PADME proposal

Presenter: KOZHUHAROV, Venelin (University of Sofia (BG))

Contribution ID: **16**

Type: **not specified**

SHiP sensitivities for Hidden Sector

Presenter: GRAVERINI, Elena (Universitaet Zuerich (CH))

Contribution ID: 17

Type: **not specified**

Report from CRB

Presenter: VAN HERWIJNEN, Eric (CERN)

Contribution ID: **18**

Type: **not specified**

Report from CRB chair

Contribution ID: **19**

Type: **not specified**

Optimisation of the SHiP geometry and muon shield

Presenter: DIJKSTRA, Hans (CERN)

Contribution ID: 20

Type: **not specified**

Neutrino scattering inside the vacuum vessel

Presenter: CHETELAT SOTO, Nathalie Evelyne

Contribution ID: 21

Type: **not specified**

Electron neutrino as a probe of charm production in the target

Presenters: BUONAURA, Annarita; BUONAURA, Annarita (Universita e INFN, Napoli (IT))

Contribution ID: 22

Type: **not specified**

Sensitivity of SHiP to violations of lepton universality in ν_τ scattering

Presenter: HOSSEINI, Behzad (INFN - Cagliari)

Contribution ID: 23

Type: **not specified**

Conclusion

Presenter: GOLUTVIN, Andrei (Imperial College London)

Contribution ID: 24

Type: **not specified**

Introduction

Wednesday 23 November 2016 14:00 (25 minutes)

Presenter: GOLUTVIN, Andrei (Imperial College London)

Contribution ID: 25

Type: **not specified**

HNLs and Dark Matter

Presenter: BOIARSKYI, Oleksii (Leiden University (NL))

Contribution ID: 26

Type: **not specified**

Surround background tagger and vacuum vessel

Presenters: MALININ, Alexander (National Research Centre Kurchatov Institute (RU)); LACKER, Heiko Markus (Humboldt-Universitaet zu Berlin (DE))

Contribution ID: **28**

Type: **not specified**

HS tracker

Presenter: FERRO-LUZZI, Massimiliano (CERN)

Contribution ID: 29

Type: **not specified**

Calorimeter test beam results

Presenter: KOROLKO, Ivan (ITEP Institute for Theoretical and Experimental Physics (RU))

Contribution ID: **30**

Type: **not specified**

Muon detector

Presenter: BALDINI, Wander (Universita di Ferrara & INFN (IT))

Contribution ID: **31**

Type: **not specified**

Trigger & DAQ

Presenter: DIJKSTRA, Hans (CERN)

Contribution ID: **32**

Type: **not specified**

Running computations on the SHiP production cluster

Presenters: BARANOV, Alexander (Yandex School of Data Analysis (RU)); USTYUZHANIN, Andrey (Yandex School of Data Analysis (RU))

Contribution ID: **33**

Type: **not specified**

Summary of the tutorial

Contribution ID: 34

Type: **not specified**

Search for Hidden Sector at BaBar

Presenter: CHAUVEAU, Jacques (Centre National de la Recherche Scientifique (FR))

Contribution ID: 35

Type: **not specified**

Tau neutrino detector: SciFi for the Target Tracker

Presenter: MALININ, Alexander (National Research Centre Kurchatov Institute (RU))

Contribution ID: 36

Type: **not specified**

Tau neutrino detector: Report on emulsion test beam

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

Contribution ID: 37

Type: **not specified**

Introduction

Presenter: RUF, Thomas (CERN)

Contribution ID: **38**

Type: **not specified**

Annarita

Contribution ID: **39**

Type: **not specified**

Elena

Presenter: GRAVERINI, Elena (Universitaet Zuerich (CH))

Contribution ID: 40

Type: **not specified**

Charm production measurement

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

Contribution ID: 41

Type: **not specified**

Physics Beyond Collider

Contribution ID: 42

Type: **not specified**

CRB meeting

Wednesday 23 November 2016 18:00 (1 hour)

Presenter: VAN HERWIJNEN, Eric (CERN)

Contribution ID: 43

Type: **not specified**

Plans for target

Presenter: CALVIANI, Marco (CERN)

Session Classification: Detector session 1

Contribution ID: 44

Type: **not specified**

Muon shield and decay volume optimization

Presenter: DIJKSTRA, Hans (CERN)

Session Classification: Detector session 1

Contribution ID: 45

Type: **not specified**

Muon shield plans

Presenter: PATEL, Mitesh (Imperial College Sci., Tech. & Med. (GB))

Session Classification: Detector session 1

Contribution ID: 46

Type: **not specified**

Helium bag option for decay volume

Presenter: BARBER, Geoffrey John (Imperial College Sci., Tech. & Med. (GB))

Session Classification: Detector session 1

Contribution ID: 47

Type: **not specified**

Straw tracker plans

Presenter: FERRO-LUZZI, Massimiliano (CERN)

Session Classification: Detector session 1

Contribution ID: 48

Type: **not specified**

Straw tracker test beam results

Presenter: GUZ, Iouri (Institute for High Energy Physics (RU))

Session Classification: Detector session 1

Contribution ID: 49

Type: **not specified**

PID plans

Presenter: BONIVENTO, Walter Marcello (INFN Cagliari)

Session Classification: Detector session 1

Contribution ID: 50

Type: **not specified**

Implementation of PID in FairSHiP

Presenter: HOSSEINI, Behzad (INFN - Cagliari)

Session Classification: Detector session 1

Contribution ID: 51

Type: **not specified**

Calorimeter plans

Presenters: VILLA, Mauro (Universita e INFN, Bologna (IT)); VILLA, Mauro (University of Bologna)

Session Classification: Detector session 2

Contribution ID: 52

Type: **not specified**

Calorimeter test beam results

Presenter: KOROLKO, Ivan (ITEP Institute for Theoretical and Experimental Physics (RU))

Session Classification: Detector session 2

Contribution ID: 53

Type: **not specified**

Muon plans

Presenter: LANFRANCHI, Gaia (Istituto Nazionale Fisica Nucleare Frascati (IT))

Session Classification: Detector session 2

Contribution ID: 54

Type: **not specified**

Muon test beam results

Presenter: MONTANARI, Alessandro (INFN-Bologna)

Session Classification: Detector session 2

Contribution ID: 55

Type: **not specified**

Timing detector and upstream veto plans

Presenter: STORACI, Barbara (Universitaet Zuerich (CH))

Session Classification: Detector session 2

Contribution ID: 56

Type: **not specified**

Coffee break

Contribution ID: 57

Type: **not specified**

Timing detector - Scintillating bar options

Presenter: KORZENEV, Alexander (Universite de Geneve (CH))

Session Classification: Detector session 2

Contribution ID: 58

Type: **not specified**

Surround background tagger plans

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

Session Classification: Detector session 2

Contribution ID: 59

Type: **not specified**

Tau neutrino detector plans

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

Session Classification: Detector session 2

Contribution ID: **60**

Type: **not specified**

Emulsion test beam results

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

Session Classification: Detector session 2

Contribution ID: **61**

Type: **not specified**

Multilayer film shields for magnetic protection of PMTs

Presenter: DMITRENKO, Valeriy (MEPhI)

Session Classification: Detector session 2

Contribution ID: **62**

Type: **not specified**

DAQ

Presenter: BRENNER, Richard (Uppsala University (SE))

Session Classification: Physics software

Contribution ID: **63**

Type: **not specified**

Computing

Presenter: RUF, Thomas (CERN)

Session Classification: Physics software

Contribution ID: 64

Type: **not specified**

Organization of future work

Presenter: JACOBSSON, Richard (CERN)

Contribution ID: 65

Type: **not specified**

CRB report

Presenter: VAN HERWIJNEN, Eric (CERN)

Contribution ID: **66**

Type: **not specified**

Concluding remarks

Presenter: GOLUTVIN, Andrei (Imperial College London)

Contribution ID: 67

Type: **not specified**

Introduction

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

Session Classification: Physics

Contribution ID: **68**

Type: **not specified**

Cascade production and implication for the background

Presenter: DIJKSTRA, Hans (CERN)

Session Classification: Physics

Contribution ID: **69**

Type: **not specified**

ALP to two photons

Presenter: BONIVENTO, Walter Marcello (INFN Cagliari)

Session Classification: Physics

Contribution ID: 70

Type: **not specified**

Acceptance studies for Dark Scalars

Presenter: LANFRANCHI, Gaia (Istituto Nazionale Fisica Nucleare Frascati (IT))

Session Classification: Physics

Contribution ID: 71

Type: **not specified**

Dedicated experiment to measure charm cross section (Status and Progress)

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

Session Classification: Physics

Contribution ID: 72

Type: **not specified**

GEM/uRWELL option for neutrino target tracker

Presenter: BENCIVENNI, Giovanni (Istituto Nazionale Fisica Nucleare Frascati (IT))

Session Classification: Physics software

Contribution ID: 73

Type: **not specified**

Detector summary: Organization of future works

Presenter: JACOBSSON, Richard (CERN)

Contribution ID: 74

Type: **not specified**

SciFi option for neutrino target tracker

Presenter: MALININ, Alexander (National Research Centre Kurchatov Institute (RU))

Session Classification: Physics software

Contribution ID: 75

Type: **not specified**

Introduction

Presenter: RUF, Thomas (CERN)

Session Classification: Software tutorial

Contribution ID: 76

Type: **not specified**

HNL simulation and analysis: INTRO

Presenter: GRAVERINI, Elena (Universitaet Zuerich (CH))

Session Classification: Software tutorial

Contribution ID: 77

Type: **not specified**

Material and detector implementation in FairShip

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

Session Classification: Software tutorial

Contribution ID: 78

Type: **not specified**

Hands-on: detector implementation

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

Contribution ID: 79

Type: **not specified**

Hands-on: detector implementation and more

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

Session Classification: Software tutorial

Contribution ID: **80**

Type: **not specified**

Muon shield

Session Classification: Detector session 1

Contribution ID: **81**

Type: **not specified**

Muon flux and experimental acceptance

Wednesday 23 November 2016 14:40 (20 minutes)

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

Session Classification: Detector session 1

Contribution ID: **82**

Type: **not specified**

Tau neutrino/LDM detector configuration

Wednesday 23 November 2016 15:05 (20 minutes)

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

Session Classification: Detector session 1

Contribution ID: **83**

Type: **not specified**

Upstream muon spectrometer

Wednesday 23 November 2016 15:30 (15 minutes)

Presenter: BICK, Daniel (Universität Hamburg)

Session Classification: Detector session 1

Contribution ID: **84**

Type: **not specified**

Emulsion production capability

Wednesday 23 November 2016 16:25 (15 minutes)

Presenter: KOMATSU, Masahiro (Nagoya University (JP))

Session Classification: Detector session 1

Contribution ID: 85

Type: **not specified**

Emulsion analysis - future prospects

Wednesday 23 November 2016 16:45 (15 minutes)

Presenter: TIOUKOV, Valeri (Universita e INFN, Napoli (IT))

Session Classification: Detector session 1

Contribution ID: **86**

Type: **not specified**

Summary of test-beams for the CES and emulsion-micromegas coupling

Wednesday 23 November 2016 17:05 (15 minutes)

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

Session Classification: Detector session 1

Contribution ID: 87

Type: **not specified**

Decay volume - concrete/steel

Thursday 24 November 2016 08:30 (20 minutes)

Presenter: PROTA, Andrea

Session Classification: Detector session 2

Contribution ID: **88**

Type: **not specified**

Decay volume and LSc integration - steel

Thursday 24 November 2016 08:55 (20 minutes)

Presenter: MALININ, Alexander (National Research Centre Kurchatov Institute (RU))

Session Classification: Detector session 2

Contribution ID: **89**

Type: **not specified**

SBT status and plans

Thursday 24 November 2016 09:20 (15 minutes)

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

Session Classification: Detector session 2

Contribution ID: **90**

Type: **not specified**

SBT - scintillating bar option

Thursday 24 November 2016 09:40 (20 minutes)

Presenter: KORZENEV, Alexander (Universite de Geneve (CH))

Session Classification: Detector session 2

Contribution ID: **91**

Type: **not specified**

Straw tracker status and plans

Thursday 24 November 2016 10:05 (20 minutes)

Presenter: FERRO-LUZZI, Massimiliano (CERN)

Session Classification: Detector session 2

Contribution ID: 92

Type: **not specified**

Timing detector - scintillating bar option

Thursday 24 November 2016 11:00 (20 minutes)

Presenter: BETANCOURT, Christopher (Universitaet Zuerich (CH))

Session Classification: Detector session 2

Contribution ID: 93

Type: **not specified**

Timing detector - MRPC option

Thursday 24 November 2016 11:25 (20 minutes)

Presenter: BLANCO CASTRO, Alberto (Universidade de Coimbra (PT))

Session Classification: Detector session 2

Contribution ID: 94

Type: **not specified**

PID and optimization

Thursday 24 November 2016 11:50 (20 minutes)

Presenter: BONIVENTO, Walter Marcello (INFN Cagliari)

Session Classification: Detector session 2

Contribution ID: 95

Type: **not specified**

DAQ

Thursday 24 November 2016 12:15 (15 minutes)

Presenter: JONKER, Michael (CERN)

Session Classification: Detector session 2

Contribution ID: **96**

Type: **not specified**

Software status

Thursday 24 November 2016 14:00 (25 minutes)

Presenter: RUF, Thomas (CERN)

Session Classification: Physics software

Contribution ID: 97

Type: **not specified**

Track pattern recognition for the straw tracker

Thursday 24 November 2016 14:30 (20 minutes)

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

Session Classification: Physics software

Contribution ID: **98**

Type: **not specified**

PID

Thursday 24 November 2016 14:55 (15 minutes)

Presenter: HOSSEINI, Behzad (INFN - Cagliari)

Session Classification: Physics software

Contribution ID: 99

Type: **not specified**

Status of neutrino background

Thursday 24 November 2016 15:45 (20 minutes)

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

Session Classification: Physics 1

Contribution ID: **100**

Type: **not specified**

Signal status

Thursday 24 November 2016 16:10 (25 minutes)

Presenter: PETRIDIS, Konstantinos (University of Bristol (GB))

Session Classification: Physics 1

Contribution ID: **101**

Type: **not specified**

Dark Photon

Session Classification: Physics 1

Contribution ID: **102**

Type: **not specified**

LDM search with nuclear emulsion

Thursday 24 November 2016 16:40 (20 minutes)

Presenter: GOLUTVIN, Andrei (Imperial College London)

Session Classification: Physics 1

Contribution ID: **103**

Type: **not specified**

Optimization of the emulsion detector for LDM and tau neutrino physics

Thursday 24 November 2016 17:05 (20 minutes)

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

Session Classification: Physics 1

Contribution ID: **104**

Type: **not specified**

Theoretical ideas and papers

Thursday 24 November 2016 17:35 (20 minutes)

Presenter: EIJIMA, Shintaro (École Polytechnique Fédérale de Lausanne)

Session Classification: Physics 1

Contribution ID: **105**

Type: **not specified**

Differential charm cross-section measurement in proton collisions

Friday 25 November 2016 09:25 (20 minutes)

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

Session Classification: Physics

Contribution ID: **106**

Type: **not specified**

Summary physics and plans

Friday 25 November 2016 11:10 (25 minutes)

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

Session Classification: Summaries

Contribution ID: **107**

Type: **not specified**

Summary detector and plans

Friday 25 November 2016 11:35 (25 minutes)

Presenter: JACOBSSON, Richard (CERN)

Session Classification: Summaries

Contribution ID: **108**

Type: **not specified**

Discussion physics and detector

Friday 25 November 2016 12:00 (20 minutes)

Session Classification: Summaries

Contribution ID: **109**

Type: **not specified**

CRB summary

Friday 25 November 2016 12:35 (15 minutes)

Presenter: VAN HERWIJNEN, Eric (CERN)

Session Classification: Summaries

Contribution ID: **110**

Type: **not specified**

Wrap-up

Friday 25 November 2016 12:50 (5 minutes)

Presenter: GOLUTVIN, Andrei (Imperial College London)

Session Classification: Summaries

Contribution ID: 111

Type: **not specified**

Physics Beyond Collider Status and Plans

Presenter: LAMONT, Mike (CERN)

Session Classification: Physics

Contribution ID: 112

Type: **not specified**

Charm production in 400 GeV proton collisions

Friday 25 November 2016 09:50 (20 minutes)

Presenter: TRAMONTANO, Francesco (Universita e INFN, Napoli (IT))

Session Classification: Physics

Contribution ID: **113**

Type: **not specified**

Physics Beyond Collider status and plans

Friday 25 November 2016 09:00 (20 minutes)

Presenter: LAMONT, Mike (CERN)

Contribution ID: **114**

Type: **not specified**

Detector session intro

Wednesday 23 November 2016 14:30 (5 minutes)

Presenter: JACOBSSON, Richard (CERN)

Session Classification: Detector session 1

Contribution ID: **115**

Type: **not specified**

SHiP publications

Friday 25 November 2016 12:20 (10 minutes)

Summary

Presenter: BONIVENTO, Walter Marcello (INFN Cagliari)

Session Classification: Summaries

Contribution ID: **116**

Type: **not specified**

CERN Theory Institute

Thursday 24 November 2016 17:30 (4 minutes)

Presenter: BOIARSKYI, Oleksii (Leiden University (NL))

Session Classification: Physics 1