

ESSnuSB+ 2nd Annual Meeting

Report of Contributions

Contribution ID: 1

Type: **not specified**

Welcome and logistics

Monday 23 September 2024 13:30 (10 minutes)

Primary author: TOLBA, Tamer (UNI/EXP (Uni Hamburg, Institut fur Experimentalphysik))

Presenter: TOLBA, Tamer (UNI/EXP (Uni Hamburg, Institut fur Experimentalphysik))

Session Classification: Plenary Session

Contribution ID: 2

Type: **not specified**

A word from the University VP

Monday 23 September 2024 13:40 (10 minutes)

Primary author: Prof. BÖHMANN, Tilo (UHH)

Presenter: Prof. BÖHMANN, Tilo (UHH)

Session Classification: Plenary Session

Contribution ID: 3

Type: **not specified**

Report from the Magement Team

Monday 23 September 2024 13:50 (20 minutes)

Primary author: DRACOS, Marcos (IPHC-IN2P3/CNRS)

Presenter: DRACOS, Marcos (IPHC-IN2P3/CNRS)

Session Classification: Plenary Session

Contribution ID: 4

Type: **not specified**

DESY: particle physics current and future plan

Monday 23 September 2024 14:10 (30 minutes)

Primary author: MELZER-PELLMANN, Isabell (Deutsches Elektronen-Synchrotron DESY)

Presenters: HEINEMANN, Beate (DESY and University of Hamburg (Germany)); MELZER-PELLMANN, Isabell (Deutsches Elektronen-Synchrotron DESY)

Session Classification: Plenary Session

Contribution ID: 5

Type: **not specified**

Report from WP3

Monday 23 September 2024 15:05 (25 minutes)

Primary author: BAUSSAN, Eric (Unistra / CNRS)

Presenter: BAUSSAN, Eric (Unistra / CNRS)

Session Classification: Plenary Session

Contribution ID: 6

Type: **not specified**

Report from WP3

Session Classification: Plenary Session

Contribution ID: 7

Type: **not specified**

Report from WP4

Monday 23 September 2024 16:00 (30 minutes)

Primary author: OLVEGÅRD, Maja (Uppsala University)

Presenter: OLVEGÅRD, Maja (Uppsala University)

Session Classification: Plenary Session

Contribution ID: 8

Type: **not specified**

Report from WP5

Monday 23 September 2024 16:30 (30 minutes)

Primary authors: FANOURLAKIS, Georgios (Demokritos, Greece); GHOSH, Monojit (Ruđer Bošković Institute, Zagreb, Croatia)

Presenters: FANOURLAKIS, Georgios (Demokritos, Greece); GHOSH, Monojit (Ruđer Bošković Institute, Zagreb, Croatia)

Session Classification: Plenary Session

Contribution ID: 9

Type: **not specified**

Report from WP6

Monday 23 September 2024 17:00 (30 minutes)

Primary author: TERRANOVA, Francesco (Universita' di Milano Bicocca and INFN)

Presenter: TERRANOVA, Francesco (Universita' di Milano Bicocca and INFN)

Session Classification: Plenary Session

Contribution ID: **10**

Type: **not specified**

Report 1

Session Classification: Plenary Session 2

Contribution ID: **11**

Type: **not specified**

Report 2

Session Classification: Plenary Session 2

Contribution ID: 12

Type: **not specified**

Parallel 1

Contribution ID: **13**

Type: **not specified**

Parallel 2

Contribution ID: **14**

Type: **not specified**

Parallel 3

Contribution ID: 15

Type: **not specified**

Parallel 4

Contribution ID: **16**

Type: **not specified**

Parallel 5

Contribution ID: 17

Type: **not specified**

Adjourn and moving to Dinner place

Tuesday 24 September 2024 17:00 (5h 30m)

Contribution ID: **18**

Type: **not specified**

Report from WP3

Contribution ID: 19

Type: **not specified**

Instrumentation of the decay tunnel

Wednesday 25 September 2024 09:00 (20 minutes)

Primary author: BRANCA, Antonio (INFN, Milan Bicocca and; Milan Bicocca U)

Presenter: BRANCA, Antonio (INFN, Milan Bicocca and; Milan Bicocca U)

Session Classification: Plenary Session

Contribution ID: **20**

Type: **not specified**

WP3 Talk

Session Classification: Plenary Session

Contribution ID: **21**

Type: **not specified**

WP4 Talk

Session Classification: Plenary Session

Contribution ID: 22

Type: **not specified**

Report from WP5

Session Classification: Plenary Session

Contribution ID: 23

Type: **not specified**

Report from WP6

Session Classification: Plenary Session

Contribution ID: 24

Type: **not specified**

Adjourn

Monday 23 September 2024 18:00 (10 minutes)

Contribution ID: 25

Type: **not specified**

Zinkgruvan visit and Far Detector design project

Wednesday 25 September 2024 17:30 (30 minutes)

Primary author: EKELOF, Tord (Uppsala University (SE))

Presenter: EKELOF, Tord (Uppsala University (SE))

Contribution ID: 26

Type: **not specified**

IAP Meeting

Thursday 26 September 2024 14:00 (1h 30m)

Primary authors: LUDHOVA, Livia (IKP-2 FZJ, RWTH Aachen and JARA - FAME, Germany); MACHIDA, Shinji; KATORI, Teppei (King's College London)

Presenters: LUDHOVA, Livia (IKP-2 FZJ, RWTH Aachen and JARA - FAME, Germany); MACHIDA, Shinji; KATORI, Teppei (King's College London)

Contribution ID: 27

Type: **not specified**

GB Meeting

Contribution ID: **28**

Type: **not specified**

DEB Meeting

Contribution ID: 29

Type: **not specified**

MT Meeting

Session Classification: Plenary Session

Contribution ID: **30**

Type: **not specified**

Plenary Session: Discussion

Contribution ID: **31**

Type: **not specified**

IAP Meeting

Contribution ID: 32

Type: **not specified**

IAP Meeting

Thursday 26 September 2024 16:00 (1h 30m)

Contribution ID: **33**

Type: **not specified**

DEB Meeting

Session Classification: Plenary Session

Contribution ID: 34

Type: **not specified**

GB chair's welcome and GB Agenda

Friday 27 September 2024 09:00 (5 minutes)

Primary author: TOPAKSU, Aysel Kayis

Presenter: TOPAKSU, Aysel Kayis

Session Classification: Plenary Session

Contribution ID: 35

Type: **not specified**

Report from WP2

Session Classification: Plenary Session

Contribution ID: **36**

Type: **not specified**

Report from WP3

Session Classification: Plenary Session

Contribution ID: 37

Type: **not specified**

Report from WP4

Session Classification: Plenary Session

Contribution ID: **38**

Type: **not specified**

GB and IAP report

Session Classification: Plenary Session

Contribution ID: 39

Type: **not specified**

Report from WP6

Session Classification: Plenary Session

Contribution ID: 40

Type: **not specified**

Report from DEB

Session Classification: Plenary Session

Contribution ID: 41

Type: **not specified**

Report from IAP

Session Classification: Plenary Session

Contribution ID: 42

Type: **not specified**

Closing

Session Classification: Plenary Session

Contribution ID: 43

Type: **not specified**

Adjourn

Friday 27 September 2024 12:30 (10 minutes)

Contribution ID: 44

Type: **not specified**

Parallel 1 or WPs duo/trio mix

Contribution ID: 45

Type: **not specified**

Parallel 2 or WPs duo/trio mix

Contribution ID: 46

Type: **not specified**

Parallel 3 or WPs duo/trio mix

Contribution ID: 47

Type: **not specified**

Parallel 4 or WPs duo/trio mix

Contribution ID: 48

Type: **not specified**

Parallel 5 or WPs duo/trio mix

Contribution ID: 49

Type: **not specified**

Report from DEB

Monday 23 September 2024 17:30 (30 minutes)

Primary author: TOLBA, Tamer (UNI/EXP (Uni Hamburg, Institut fur Experimentalphysik))

Presenter: TOLBA, Tamer (UNI/EXP (Uni Hamburg, Institut fur Experimentalphysik))

Session Classification: Plenary Session

Contribution ID: 50

Type: **not specified**

MT meeting (Closed Session)

Contribution ID: 51

Type: **not specified**

GB meeting (Closed Session)

Contribution ID: 52

Type: **not specified**

DEB Meeting (open session)

Thursday 26 September 2024 16:00 (1h 30m)

Primary author: TOLBA, Tamer (UNI/EXP (Uni Hamburg, Institut fur Experimentalphysik))

Presenter: TOLBA, Tamer (UNI/EXP (Uni Hamburg, Institut fur Experimentalphysik))

Contribution ID: 53

Type: **not specified**

MT and ESFRI Task Force meeting (open session)

Thursday 26 September 2024 14:00 (1h 30m)

Primary authors: KLIČEK, Budimir (Ruđer Bošković Institute, Zagreb); DRACOS, Marcos (IPHC-IN2P3/CNRS)

Presenters: KLIČEK, Budimir (Ruđer Bošković Institute, Zagreb); DRACOS, Marcos (IPHC-IN2P3/CNRS)

Contribution ID: 54

Type: **not specified**

Pion Transfer

Wednesday 25 September 2024 10:30 (30 minutes)

Primary author: TOPP-MUGGLESTONE, Max (CERN)

Presenter: TOPP-MUGGLESTONE, Max (CERN)

Session Classification: Plenary Session

Contribution ID: 55

Type: **not specified**

WP6 Talk

Session Classification: Plenary Session

Contribution ID: 56

Type: **not specified**

Report from WP2

Monday 23 September 2024 14:40 (25 minutes)

Primary author: GAZIS, Nick (European Spallation Source - ESS)

Presenter: GAZIS, Nick (European Spallation Source - ESS)

Session Classification: Plenary Session

Contribution ID: 57

Type: **not specified**

THEIA Detector

Wednesday 25 September 2024 13:00 (30 minutes)

Presenter: STEIGER, Hans (TUM)

Contribution ID: 58

Type: **not specified**

WP2 Report

Thursday 26 September 2024 09:00 (30 minutes)

Session Classification: Plenary Session

Contribution ID: 59

Type: **not specified**

WP3 Report

Thursday 26 September 2024 09:30 (30 minutes)

Primary author: BAUSSAN, Eric (IPHC - CNRS/IN2P3)

Presenter: BAUSSAN, Eric (IPHC - CNRS/IN2P3)

Session Classification: Plenary Session

Contribution ID: **60**

Type: **not specified**

WP4 Report

Thursday 26 September 2024 10:00 (30 minutes)

Primary author: OLVEGAARD, Maja (Uppsala University)

Presenter: OLVEGAARD, Maja (Uppsala University)

Session Classification: Plenary Session

Contribution ID: **61**

Type: **not specified**

WP5 Report

Thursday 26 September 2024 11:00 (30 minutes)

Primary authors: FANOURAKIS, Georgios (Demokritos, Greece); GHOSH, Monojit (Ruđer Bošković Institute, Zagreb, Croatia)

Presenters: FANOURAKIS, Georgios (Demokritos, Greece); GHOSH, Monojit (Ruđer Bošković Institute, Zagreb, Croatia)

Session Classification: Plenary Session

Contribution ID: **62**

Type: **not specified**

WP6 Report

Thursday 26 September 2024 11:30 (30 minutes)

Primary authors: PUPILLI, Fabio (INFN-Padova); TERRANOVA, Francesco (Universita' di Milano Bicocca and INFN)

Presenters: PUPILLI, Fabio (INFN-Padova); TERRANOVA, Francesco (Universita' di Milano Bicocca and INFN)

Session Classification: Plenary Session

Contribution ID: **63**

Type: **not specified**

Open Discussion

Thursday 26 September 2024 12:00 (30 minutes)

Session Classification: Plenary Session

Contribution ID: **64**

Type: **not specified**

LEnuSTORM flux at LEMMOND

Wednesday 25 September 2024 13:30 (20 minutes)

Primary author: HALIĆ, Leon (Rudjer Boskovic Institute)

Presenter: HALIĆ, Leon (Rudjer Boskovic Institute)

Session Classification: Plenary Session

Contribution ID: 65

Type: **not specified**

WP3 Talk

Session Classification: Plenary Session

Contribution ID: **66**

Type: **not specified**

WP3 Talk

Wednesday 25 September 2024 15:30 (30 minutes)

Primary author: BAUSSAN, Eric (IPHC - CNRS/IN2P3)

Presenter: BAUSSAN, Eric (IPHC - CNRS/IN2P3)

Session Classification: Plenary Session

Contribution ID: 67

Type: **not specified**

Zinkgruvan Vis

Presenter: EKELOF, Tord (Uppsala University (SE))

Session Classification: Plenary Session

Contribution ID: **68**

Type: **not specified**

WP6 Talk

Session Classification: Plenary Session

Contribution ID: **69**

Type: **not specified**

WP2 Talk

Contribution ID: 70

Type: **not specified**

Approval of the agenda and verification of the presence of two-thirds

Friday 27 September 2024 09:05 (10 minutes)

Session Classification: Plenary Session

Contribution ID: 71

Type: **not specified**

Report from the Project Coordinator

Friday 27 September 2024 09:15 (30 minutes)

Presenter: DRACOS, Marcos (IPHC-IN2P3/CNRS)

Session Classification: Plenary Session

Contribution ID: 72

Type: **not specified**

Report from the Scientific Leader

Friday 27 September 2024 09:45 (30 minutes)

Presenter: EKELOF, Tord (Uppsala University (SE))

Session Classification: Plenary Session

Contribution ID: 73

Type: **not specified**

Report from the DEB Coordinator

Friday 27 September 2024 10:15 (15 minutes)

Primary author: TOLBA, Tamer (UNI/EXP (Uni Hamburg, Institut fur Experimentalphysik))

Presenter: TOLBA, Tamer (UNI/EXP (Uni Hamburg, Institut fur Experimentalphysik))

Session Classification: Plenary Session

Contribution ID: 74

Type: **not specified**

News from GB members and meeting's participants (open session)

Friday 27 September 2024 11:00 (15 minutes)

Session Classification: Plenary Session

Contribution ID: 75

Type: **not specified**

International Advisory Panel: preliminary conclusions

Friday 27 September 2024 11:15 (30 minutes)

Session Classification: Plenary Session

Contribution ID: 76

Type: **not specified**

ESSvSB+ Annual Meeting 2025

Friday 27 September 2024 11:45 (15 minutes)

Session Classification: Plenary Session

Contribution ID: 77

Type: **not specified**

AOB

Friday 27 September 2024 12:00 (30 minutes)

Session Classification: Plenary Session

Contribution ID: 78

Type: **not specified**

Solar neutrinos at FD

Wednesday 25 September 2024 13:50 (20 minutes)

Primary author: GIARNETTI, Alessio (Roma Tre University)

Presenter: GIARNETTI, Alessio (Roma Tre University)

Session Classification: Plenary Session

Contribution ID: 79

Type: **not specified**

Atmopsheric neutrinos at FD

Wednesday 25 September 2024 14:10 (20 minutes)

Primary author: VIHONEN, Sampsa (Sun Yat-sen University)

Presenter: VIHONEN, Sampsa (Sun Yat-sen University)

Session Classification: Plenary Session

Contribution ID: **80**

Type: **not specified**

Gd doping at FD

Wednesday 25 September 2024 14:30 (20 minutes)

Primary author: Mr OGLAKCI, Mehmet (Cukurova University)

Presenter: Mr OGLAKCI, Mehmet (Cukurova University)

Session Classification: Plenary Session

Contribution ID: **81**

Type: **not specified**

Discussion

Wednesday 25 September 2024 14:50 (10 minutes)

Primary author: GHOSH, Monojit (Ruđer Bošković Institute, Zagreb, Croatia)

Presenter: GHOSH, Monojit (Ruđer Bošković Institute, Zagreb, Croatia)

Session Classification: Plenary Session

Contribution ID: **82**

Type: **not specified**

WP2 Parallel

Contribution ID: **83**

Type: **not specified**

WP2 Parallel

Contribution ID: **84**

Type: **not specified**

Framework visualization - updates and progression

Tuesday 24 September 2024 09:00 (20 minutes)

Primary author: PETCOV, Georgi (University of Sofia, Bulgaria)

Presenter: PETCOV, Georgi (University of Sofia, Bulgaria)

Session Classification: Parallel

Contribution ID: 85

Type: **not specified**

Long Range Force at ESSnuSB FD

Tuesday 24 September 2024 09:20 (20 minutes)

Primary author: GIARNETTI, Alessio (Roma Tre University)

Presenter: GIARNETTI, Alessio (Roma Tre University)

Session Classification: Parallel

Contribution ID: **86**

Type: **not specified**

Supernova Neutrinos at ESSnuSB FD

Tuesday 24 September 2024 09:40 (20 minutes)

Primary author: GHOSH, Monojit (Ruđer Bošković Institute, Zagreb, Croatia)

Presenter: GHOSH, Monojit (Ruđer Bošković Institute, Zagreb, Croatia)

Session Classification: Parallel

Contribution ID: 87

Type: **not specified**

Neutrino-induced pion production

Tuesday 24 September 2024 10:00 (20 minutes)

Primary author: MARCOS, Javier Garcia (Gent U. and; Madrid U.)

Presenter: MARCOS, Javier Garcia (Gent U. and; Madrid U.)

Session Classification: Parallel

Contribution ID: **88**

Type: **not specified**

Discussion

Tuesday 24 September 2024 10:20 (10 minutes)

Primary author: GHOSH, Monojit (Ruđer Bošković Institute, Zagreb, Croatia)

Presenter: GHOSH, Monojit (Ruđer Bošković Institute, Zagreb, Croatia)

Session Classification: Parallel

Contribution ID: 89

Type: **not specified**

Instrumentation of the decay tunnel

Primary author: BRANCA, Antonio (INFN, Milan Bicocca and; Milan Bicocca U)

Presenter: BRANCA, Antonio (INFN, Milan Bicocca and; Milan Bicocca U)

Session Classification: Parallel

Contribution ID: **90**

Type: **not specified**

Updates on the beamline with Transport and MADX

Primary author: BRUNETTI, Giulia (INFN Padova)

Presenter: BRUNETTI, Giulia (INFN Padova)

Session Classification: Parallel

Contribution ID: 91

Type: **not specified**

Updates on PICOSEC and the testbeams at CERN

Primary author: KALLITSOPOULOU, Alexandra (CERN)

Presenter: KALLITSOPOULOU, Alexandra (CERN)

Session Classification: Parallel

Contribution ID: 92

Type: **not specified**

ML techniques in event reconstruction

Primary author: IVERSEN, Kaare (Lund University)

Presenter: IVERSEN, Kaare (Lund University)

Session Classification: Joint

Contribution ID: 93

Type: **not specified**

Sterile neutrino with LEMNB

Primary author: BARČOT, Doris (Ruđer Bošković Institute, Croatia)

Presenter: BARČOT, Doris (Ruđer Bošković Institute, Croatia)

Session Classification: Joint

Contribution ID: 94

Type: **not specified**

LEMMOND design

Primary author: TZAMARIAS, Spyros (Hellenic Open University, Greece)

Presenter: TZAMARIAS, Spyros (Hellenic Open University, Greece)

Session Classification: Joint

Contribution ID: 95

Type: **not specified**

Discussion WP2 + Wp3 + Wp4

Tuesday 24 September 2024 11:00 (1h 30m)

Session Classification: Joint

Contribution ID: 96

Type: **not specified**

Updates on the beamline with Transport and MADX

Wednesday 25 September 2024 09:20 (20 minutes)

Primary author: BRUNETTI, Giulia (INFN Padova)

Presenter: BRUNETTI, Giulia (INFN Padova)

Session Classification: Plenary Session

Contribution ID: 97

Type: **not specified**

Updates on PICOSEC and the testbeams at CERN

Wednesday 25 September 2024 09:40 (20 minutes)

Primary author: KALLITSOPOULOU, Alexandra (CERN)

Presenter: KALLITSOPOULOU, Alexandra (CERN)

Session Classification: Plenary Session

Contribution ID: **98**

Type: **not specified**

Target Design simulations

Tuesday 24 September 2024 09:00 (20 minutes)

Primary author: AGUILAR, Jorge (ESSBilbao)

Presenter: AGUILAR, Jorge (ESSBilbao)

Session Classification: Parallel

Contribution ID: 99

Type: **not specified**

Horn Design

Tuesday 24 September 2024 09:20 (20 minutes)

Primary author: BAUSSAN, Eric (IPHC - CNRS/IN2P3)

Presenter: BAUSSAN, Eric (IPHC - CNRS/IN2P3)

Session Classification: Parallel

Contribution ID: **100**

Type: **not specified**

Pion Extraction dipole

Tuesday 24 September 2024 09:40 (20 minutes)

Primary author: TOLBA, Tamer (UNI/EXP (Uni Hamburg, Institut fur Experimentalphysik))

Presenter: TOLBA, Tamer (UNI/EXP (Uni Hamburg, Institut fur Experimentalphysik))

Session Classification: Parallel

Contribution ID: **101**

Type: **not specified**

Discussions with WP2

Tuesday 24 September 2024 10:00 (30 minutes)

Session Classification: Parallel

Contribution ID: **102**

Type: **not specified**

Classification of ESSnuSB WC Near Detector Events Using Graph Neural Networks

Tuesday 24 September 2024 11:00 (35 minutes)

Primary author: IVERSEN, Kaare (Lund University)

Presenter: IVERSEN, Kaare (Lund University)

Session Classification: Joint

Contribution ID: **103**

Type: **not specified**

WP2 Far detector

Wednesday 25 September 2024 16:30 (30 minutes)

Primary author: SAIANG, David

Presenter: SAIANG, David

Session Classification: Plenary Session

Contribution ID: **104**

Type: **not specified**

Dawid

Wednesday 25 September 2024 17:00 (30 minutes)

Primary author: PATRZALEK, Dawid (European Spallation Source - ESS)

Presenter: PATRZALEK, Dawid (European Spallation Source - ESS)

Session Classification: Plenary Session

Contribution ID: **105**

Type: **not specified**

WP3 talk_2

Wednesday 25 September 2024 16:00 (30 minutes)

Primary author: TOLBA, Tamer (UNI/EXP (Uni Hamburg, Institut fur Experimentalphysik))

Presenter: TOLBA, Tamer (UNI/EXP (Uni Hamburg, Institut fur Experimentalphysik))

Session Classification: Plenary Session

Contribution ID: **106**

Type: **not specified**

LEMMOND Design a progress report

Tuesday 24 September 2024 11:35 (25 minutes)

Primary author: TZAMARIAS, Spyros (Hellenic Open University, Greece)

Presenter: TZAMARIAS, Spyros (Hellenic Open University, Greece)

Session Classification: Joint

Contribution ID: **107**

Type: **not specified**

Sterile neutrino with LEMNB

Tuesday 24 September 2024 12:00 (30 minutes)

Primary author: BARČOT, Doris (Ruđer Bošković Institute, Croatia)

Presenter: BARČOT, Doris (Ruđer Bošković Institute, Croatia)

Session Classification: Joint

Contribution ID: **108**

Type: **not specified**

RFQ ESSnuSB+

Tuesday 24 September 2024 09:00 (20 minutes)

Primary author: MUÑOZ, Juan Luis

Presenter: MUÑOZ, Juan Luis

Session Classification: Parallel

Contribution ID: **109**

Type: **not specified**

LEnuSTORM ring progress update

Tuesday 24 September 2024 09:40 (20 minutes)

Primary author: WING CHOI, Ting (Uppsala University)

Presenter: WING CHOI, Ting (Uppsala University)

Session Classification: Parallel

Contribution ID: **110**

Type: **not specified**

Linac transfer line

Tuesday 24 September 2024 09:20 (20 minutes)

Primary author: MILAS, Natalia (ESS)

Presenter: MILAS, Natalia (ESS)

Session Classification: Parallel

Contribution ID: 111

Type: **not specified**

LEnuSTORM ring progress update

Wednesday 25 September 2024 11:00 (30 minutes)

Primary author: WING CHOI, Ting (Uppsala University)

Presenter: WING CHOI, Ting (Uppsala University)

Session Classification: Plenary Session

Contribution ID: 112

Type: **not specified**

ESSnuSB+ Pion Transfer Line

Tuesday 24 September 2024 10:00 (30 minutes)

Primary author: TOPP-MUGGLESTONE, Max (CERN)

Presenter: TOPP-MUGGLESTONE, Max (CERN)

Session Classification: Parallel