

The n_TOF Collaboration General Meeting 2022



Report of Contributions

<https://indico.cern.ch/e/1168514>

Contribution ID: 1

Type: **not specified**

Welcome & Introduction

Tuesday 13 December 2022 09:00 (15 minutes)

Presenters: LEDERER-WOODS, Claudia (The University of Edinburgh (GB)); MENGONI, Alberto (ENEA & INFN, Bologna)

Session Classification: Session 1

Contribution ID: 2

Type: **not specified**

Status of the facility

Tuesday 13 December 2022 09:15 (30 minutes)

Presenter: ABERLE, Oliver (CERN)

Session Classification: Session 1

Contribution ID: 3

Type: **not specified**

2022 Physics program

Tuesday 13 December 2022 09:45 (20 minutes)

Presenter: PATRONIS, Nikolaos (University of Ioannina (GR))

Session Classification: Session 1

Contribution ID: 4

Type: **not specified**

Status of the Phase-4 EAR1 flux evaluation

Tuesday 13 December 2022 14:00 (20 minutes)

Presenter: BACAK, Michael (CERN)

Session Classification: Session 3

Contribution ID: 5

Type: **not specified**

Status of EAR2 neutron flux determination for n_TOF-Phase4

Tuesday 13 December 2022 14:20 (20 minutes)

Presenter: PAVON RODRIGUEZ, Jose Antonio (Universidad de Sevilla (ES))

Session Classification: Session 3

Contribution ID: 6

Type: **not specified**

Experimental validation of the Resolution Function in EAR1 and EAR2

Tuesday 13 December 2022 14:40 (20 minutes)

Presenters: CASANOVAS HOSTE, Adria (Universitat Politecnica Catalunya (ES)); LERENDEGUI MARCO, Jorge (Univ. of Valencia and CSIC (ES)); PAVON RODRIGUEZ, Jose Antonio (Universidad de Sevilla (ES)); ALCAYNE AICUA, Victor (CIEMAT (Spain))

Session Classification: Session 3

Contribution ID: 7

Type: **not specified**

Status of FLUKA simulations

Tuesday 13 December 2022 15:00 (20 minutes)

Presenters: GARCIA INFANTES, Francisco (n_TOF); PAVON RODRIGUEZ, Jose Antonio (Universidad de Sevilla (ES))

Session Classification: Session 3

Contribution ID: 8

Type: **not specified**

NEAR Station Irradiation

Tuesday 13 December 2022 10:05 (20 minutes)

Presenter: BERNARDES, Ana-Paula (CERN)

Session Classification: Session 1

Contribution ID: 9

Type: **not specified**

Status of the neutron capture measurements at NEAR using B4C filters

Tuesday 13 December 2022 10:25 (20 minutes)

Presenter: STAMATI, Elisso (University of Ioannina (GR))

Session Classification: Session 1

Contribution ID: **10**

Type: **not specified**

NEAR Off-beam background characterization: status and plans

Tuesday 13 December 2022 12:35 (10 minutes)

Presenters: LERENDEGUI MARCO, Jorge (Univ. of Valencia and CSIC (ES)); BACAK, Michael (CERN)

Session Classification: Session 2

Contribution ID: 11

Type: **not specified**

First report on the 50,53Cr capture campaign in EAR1

Tuesday 13 December 2022 11:55 (20 minutes)

Presenter: PEREZ MAROTO, Pablo (Universidad de Sevilla)

Session Classification: Session 2

Contribution ID: 12

Type: **not specified**

$^{79}\text{Se}(\text{n,g})$ capture experiment: data-analysis update

Tuesday 13 December 2022 11:15 (20 minutes)

Presenter: LERENDEGUI MARCO, Jorge (Univ. of Valencia and CSIC (ES))

Session Classification: Session 2

Contribution ID: 13

Type: **not specified**

$^{94}\text{Nb}(n,g)$ capture experiment: data-analysis update

Tuesday 13 December 2022 11:35 (20 minutes)

Presenter: BALIBREA CORREA, Javier (Univ. of Valencia and CSIC (ES))

Session Classification: Session 2

Contribution ID: 14

Type: **not specified**

Measurement of the neutron capture cross section of Mo-94,95,96

Tuesday 13 December 2022 12:15 (20 minutes)

Presenters: MUCCIOLA, Riccardo; MASSIMI, Cristian (Universita e INFN, Bologna (IT))

Session Classification: Session 2

Contribution ID: 15

Type: **not specified**

Status of the ^{176}Yb capture reaction analysis

Tuesday 13 December 2022 16:00 (20 minutes)

Presenter: GARCIA INFANTES, Francisco (n_TOF)

Session Classification: Session 4

Contribution ID: 16

Type: **not specified**

Status of $^{235}\text{U}(n,f)$ analysis with STEFF

Tuesday 13 December 2022 16:20 (20 minutes)

Presenters: WRIGHT, Tobias James (University of Manchester (GB)); ET AL.

Session Classification: Session 4

Contribution ID: 17

Type: **not specified**

Fission and capture cross section of Pu-239 at EAR1

Tuesday 13 December 2022 16:40 (20 minutes)

Presenters: SANCHEZ CABALLERO, Adrian (CIEMAT - Centro de Investigaciones Energéticas Medioambientales y Tec. (ES)); ET AL.

Session Classification: Session 4

Contribution ID: **18**

Type: **not specified**

n_TOF simulations with MOIRA

Wednesday 14 December 2022 09:00 (15 minutes)

Presenter: PAVON RODRIGUEZ, Jose Antonio (Universidad de Sevilla (ES))

Session Classification: Session 5

Contribution ID: 19

Type: **not specified**

Sensitivity study of neutron flux with beam position for EAR2

Wednesday 14 December 2022 09:15 (15 minutes)

Presenter: BALIBREA CORREA, Javier (Univ. of Valencia and CSIC (ES))

Session Classification: Session 5

Contribution ID: 20

Type: **not specified**

SBR studies for the EAR2 capture setup

Wednesday 14 December 2022 09:30 (15 minutes)

Presenters: CASANOVAS HOSTE, Adria (Universitat Politecnica Catalunya (ES)); LERENDEGUI MARCO, Jorge (Univ. of Valencia and CSIC (ES)); BACAK, Michael (CERN); ALCAYNE AICUA, Victor (CIEMAT (Spain))

Session Classification: Session 5

Contribution ID: 21

Type: **not specified**

n_TOF imaging at n_TOF EAR2

Wednesday 14 December 2022 10:15 (15 minutes)

Presenter: BACAK, Michael (CERN)

Session Classification: Session 5

Contribution ID: 22

Type: **not specified**

SiTe detector test for a new ^{26}Al measurement

Wednesday 14 December 2022 09:45 (15 minutes)

Presenter: SOSNIN, Nikolay (The University of Edinburgh (GB))

Session Classification: Session 5

Contribution ID: 23

Type: **not specified**

Status of the DDX Experiment in EAR-1

Wednesday 14 December 2022 10:00 (15 minutes)

Presenter: DIETZ, Mirco (Physikalisch-Technische Bundesanstalt (DE))

Session Classification: Session 5

Contribution ID: 24

Type: **not specified**

Status of NN scattering length experiment

Wednesday 14 December 2022 11:00 (15 minutes)

Presenter: MASSIMI, Cristian (Universita e INFN, Bologna (IT))

Session Classification: Session 6

Contribution ID: 25

Type: **not specified**

Status of the HPGE for (n,inel) and first glance at ${}^7\text{Li}(n,n')$

Wednesday 14 December 2022 11:15 (15 minutes)

Presenters: PETRONE, Cristina (Horia Hulubei National Institute of Physics and Nuclear Engineering (RO)); STAMATI, Elisso (University of Ioannina (GR)); BACAK, Michael (CERN); PATRONIS, Nikolaos (University of Ioannina (GR))

Session Classification: Session 6

Contribution ID: 26

Type: **not specified**

Test of the annular silicon for (n,cp) studies, preliminary results

Wednesday 14 December 2022 11:30 (15 minutes)

Presenters: GOULA, Styliani (University of Ioannina (GR)); ET AL.

Session Classification: Session 6

Contribution ID: 27

Type: **not specified**

d-Stilbene

Wednesday 14 December 2022 11:45 (15 minutes)

Presenters: Dr PELLEGRITI, Maria Grazia (INFN - Sezione di Catania (IT)); ET AL.

Session Classification: Session 6

Contribution ID: **28**

Type: **not specified**

sTED detector

Wednesday 14 December 2022 12:00 (15 minutes)

Presenters: ALCAYNE AICUA, Victor (CIEMAT (Spain)); ET AL.

Session Classification: Session 6

Contribution ID: 29

Type: **not specified**

Status X17 test

Wednesday 14 December 2022 12:15 (15 minutes)

Presenters: GUSTAVINO, Carlo (INFN - National Institute for Nuclear Physics); ET AL.

Session Classification: Session 6

Contribution ID: **30**

Type: **not specified**

First results of the Gd-160 capture measurement in EAR1

Wednesday 14 December 2022 12:30 (15 minutes)

Presenters: Dr MASTROMARCO, Mario (European Organization for Nuclear Research (CERN)); ET AL.

Session Classification: Session 6

Contribution ID: 31

Type: **not specified**

Neutron Irradiation of Si-PIN Diodes at n_TOF

Tuesday 13 December 2022 15:20 (10 minutes)

Presenter: PALOMO PINTO, Francisco Rogelio (Universidad de Sevilla (ES))

Session Classification: Session 3

Contribution ID: 32

Type: **not specified**

U-238 neutron capture (TAC measurement): Issues on data analysis and/or simulations?

Tuesday 13 December 2022 17:00 (15 minutes)

Presenters: KOPECKY, Stefan; SCHILLEBEECKX, peter (EC-JRC-IRMM)

Session Classification: Session 4