

MAECI-MOFFIITS Meeting - 26 -28 May 2025



Report of Contributions

Contribution ID: **1**

Type: **not specified**

FOOT Status Report

Monday 26 May 2025 14:30 (20 minutes)

Presenter: VILLA, Mauro (Istituto Nazionale di Fisica Nucleare)

Session Classification: General

Contribution ID: 26

Type: **not specified**

EB report

Wednesday 28 May 2025 11:00 (25 minutes)

Presenter: KRAAN, Aafke Christine (Istituto Nazionale di Fisica Nucleare)

Session Classification: Reports and discussion

Contribution ID: 27

Type: **not specified**

IB report

Wednesday 28 May 2025 11:25 (20 minutes)

Presenter: VILLA, Mauro (Istituto Nazionale di Fisica Nucleare)

Session Classification: Reports and discussion

Contribution ID: 30

Type: **not specified**

Alpha clustering with nuclear emulsions

*Tuesday 27 May 2025 15:40 (20 minutes)***Presenter:** BOCCIA, Vincenzo (Istituto Nazionale di Fisica Nucleare)**Session Classification:** Data Analysis / 1

Contribution ID: **31**

Type: **not specified**

Discussion

Tuesday 27 May 2025 18:10 (20 minutes)

Session Classification: Data Analysis / 2

Contribution ID: 32

Type: **not specified**

Alpha-TRT (Targeted Radionuclide Therapy): from the bench to bed-side

Monday 26 May 2025 14:50 (30 minutes)

Presenter: SARNELLI, Anna (Istituto Scientifico Romagnolo per lo Studio e la Cura dei Tumori (IRST) IRCCS, Medical Physics Unit, Meldola, FC, Italy.)

Session Classification: General

Contribution ID: 33

Type: **not specified**

Nuclear data needs for protection from space radiation

Monday 26 May 2025 15:20 (1 hour)

With plans for Moon and Mars exploration, the protection of astronauts from the harmful effects of space radiation is a high priority for NASA. Space radiation transport codes use nuclear fragment production cross sections that describe how incident radiation from Galactic cosmic rays and other sources interacts with target materials such as spacecraft or human tissue. Double-differential cross section data are needed for production of protons, neutrons, light ions (hydrogen and helium isotopes) and pions from nucleus-nucleus collisions with projectile energies from 50 MeV/n up to 50 GeV/n using a variety of projectiles from hydrogen through to nickel. The availability of nuclear cross section data needed for space radiation protection will be reviewed, and gaps in the data will be discussed.

Presenter: Dr NORBURY, John**Session Classification:** General

Contribution ID: 34

Type: **not specified**

The Danish Centre for Particle Therapy

Monday 26 May 2025 16:50 (20 minutes)

Presenter: JOHANSEN, Jacob (Aarhus University)

Session Classification: General

Contribution ID: 35

Type: **not specified**

MIMOSIS: a state of the art CMOS pixel sensor for CBM micro-vertex detector and possible other applications

*Tuesday 27 May 2025 09:30 (30 minutes)***Presenters:** BESSON, Auguste (iphc Strasbourg); BERTOLONE, Gregory**Session Classification:** Detectors / 2

Contribution ID: **36**

Type: **not specified**

The new vertex project

Tuesday 27 May 2025 10:00 (15 minutes)

Presenter: RABAGLIA, Sara (Istituto Nazionale di Fisica Nucleare)

Session Classification: Detectors / 2

Contribution ID: 37

Type: **not specified**

Analysis status

*Tuesday 27 May 2025 14:00 (20 minutes)***Presenter:** TOPPI, Marco (Istituto Nazionale di Fisica Nucleare)**Session Classification:** Data Analysis / 1

Contribution ID: 38

Type: **not specified**

Mass reconstruction with CALO at CNAO2024

Tuesday 27 May 2025 14:20 (20 minutes)

Presenter: SPADAVECCHIA, Benedetto

Session Classification: Data Analysis / 1

Contribution ID: 39

Type: **not specified**

Global tracks reconstruction at CNAO2024

Tuesday 27 May 2025 14:40 (20 minutes)

Presenter: UBALDI, Giacomo (INFN Bologna)

Session Classification: Data Analysis / 1

Contribution ID: 40

Type: **not specified**

XS analysis with VTX at GSI2021

Tuesday 27 May 2025 15:00 (20 minutes)

Presenter: TESTA, Luana (Istituto Nazionale di Fisica Nucleare)

Session Classification: Data Analysis / 1

Contribution ID: 41

Type: **not specified**

Alpha clustering GSI2021

*Tuesday 27 May 2025 15:20 (20 minutes)***Presenter:** BATTISTONI, Giuseppe (Istituto Nazionale di Fisica Nucleare)**Session Classification:** Data Analysis / 1

Contribution ID: 42

Type: **not specified**

p-N target fragmentation cross sections: what exactly can we measure?

*Tuesday 27 May 2025 16:30 (20 minutes)***Presenter:** BATTISTONI, Giuseppe (Istituto Nazionale di Fisica Nucleare)**Session Classification:** Data Analysis / 2

Contribution ID: 43

Type: **not specified**

O+C₂H₄, O+H and H+O cross sections at GSI2021

*Tuesday 27 May 2025 16:50 (20 minutes)***Presenter:** DONDI, Matilde (Istituto Nazionale di Fisica Nucleare)**Session Classification:** Data Analysis / 2

Contribution ID: 44

Type: **not specified**

XS of O at 200 MeV/u at GSI

*Wednesday 28 May 2025 09:00 (20 minutes)***Presenter:** GALATI, Giuliana (Istituto Nazionale di Fisica Nucleare)**Session Classification:** Emulsion Analysis

Contribution ID: 45

Type: **not specified**

First reconstruction of Carbon @ 221 MeV/n data (CNAO2023)

*Wednesday 28 May 2025 09:20 (20 minutes)***Presenter:** MASCI, Simone (Istituto Nazionale di Fisica Nucleare)**Session Classification:** Emulsion Analysis

Contribution ID: 46

Type: **not specified**

Report and update on software activity

Tuesday 27 May 2025 17:30 (20 minutes)

Presenters: ZARRELLA, Roberto (Istituto Nazionale di Fisica Nucleare); DONG, Yunsheng (Istituto Nazionale di Fisica Nucleare)

Session Classification: Data Analysis / 2

Contribution ID: 47

Type: **not specified**

Geant4 simulation interface with shoe

Tuesday 27 May 2025 17:50 (20 minutes)

Presenter: Dr FINCK, Christian (IPHC)

Session Classification: Data Analysis / 2

Contribution ID: 48

Type: **not specified**

Start Counter Status

*Monday 26 May 2025 17:10 (20 minutes)***Presenter:** TRAINI, Giacomo (Istituto Nazionale di Fisica Nucleare)**Session Classification:** Detectors / 1

Contribution ID: 49

Type: **not specified**

MSD Status

*Monday 26 May 2025 17:50 (20 minutes)***Presenter:** MAZZOLANI, Sofia (Istituto Nazionale di Fisica Nucleare)**Session Classification:** Detectors / 1

Contribution ID: 50

Type: **not specified**

TOF-Wall Status

*Monday 26 May 2025 17:30 (20 minutes)***Presenter:** MORROCCHI, MATTEO (Istituto Nazionale di Fisica Nucleare)**Session Classification:** Detectors / 1

Contribution ID: 51

Type: **not specified**

DAQ Status

*Tuesday 27 May 2025 11:30 (20 minutes)***Presenter:** VALENTINETTI, Sara (Istituto Nazionale di Fisica Nucleare)**Session Classification:** Detectors / 3

Contribution ID: 52

Type: **not specified**

Update on Inner Tracker

Tuesday 27 May 2025 10:15 (20 minutes)

Presenter: Dr FINCK, Christian (IPHC)

Session Classification: Detectors / 2

Contribution ID: 53

Type: **not specified**

Understanding the calorimeter response function

Tuesday 27 May 2025 10:35 (20 minutes)

Presenter: BHARAT, Kharpuse

Session Classification: Detectors / 2

Contribution ID: 54

Type: **not specified**

Update on NIT R&D and data taking

Tuesday 27 May 2025 11:50 (20 minutes)

Presenters: GALATI, Giuliana (Istituto Nazionale di Fisica Nucleare); BOCCIA, Vincenzo (Istituto Nazionale di Fisica Nucleare)

Session Classification: Detectors / 3

Contribution ID: 55

Type: **not specified**

Ideas for measuring neutron production cross sections

*Wednesday 28 May 2025 10:10 (20 minutes)***Presenter:** CERELLO, Piergiorgio (Istituto Nazionale di Fisica Nucleare)**Session Classification:** Near and far projects

Contribution ID: 56

Type: **not specified**

Performance paper

Wednesday 28 May 2025 09:50 (20 minutes)

Presenter: TRAINI, Giacomo (Istituto Nazionale di Fisica Nucleare)

Session Classification: Near and far projects

Contribution ID: 57

Type: **not specified**

Activities at CNAO

*Tuesday 27 May 2025 12:10 (20 minutes)***Presenter:** MEREGHETTI, Alessio (Istituto Nazionale di Fisica Nucleare)**Session Classification:** Detectors / 3

Contribution ID: 58

Type: **not specified**

Status of TOF-Wall and Calorimeter detector analysis for HIT2022

*Tuesday 27 May 2025 17:10 (20 minutes)***Presenter:** KRAAN, Aafke Christine (Istituto Nazionale di Fisica Nucleare)**Session Classification:** Data Analysis / 2