

# **IX FOOT Collaboration Meeting**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

## **FOOT PRIN status**

*Friday, 11 December 2020 10:50 (40 minutes)*

(20 min presentation + 20 min general discussion)

**Primary author:** PATERA, Vincenzo (ROMA1)

**Presenter:** PATERA, Vincenzo (ROMA1)

**Session Classification:** 15th morning session

Contribution ID: 2

Type: **not specified**

## General Remarks

*Wednesday, 9 December 2020 14:10 (20 minutes)*

**Presenter:** PATERA, Vincenzo (ROMA1)

**Session Classification:** Welcome

Contribution ID: 3

Type: **not specified**

## Welcome

*Wednesday, 9 December 2020 14:00 (10 minutes)*

**Primary authors:** Dr SARTI, Alessio (LNF); Dr CHRISTIAN, Finck (IPHC)

**Presenters:** Dr SARTI, Alessio (LNF); Dr CHRISTIAN, Finck (IPHC)

**Session Classification:** Welcome

Contribution ID: 4

Type: **Software**

## **Cluster reconstruction inside the calorimeter with Shoe**

*Thursday, 10 December 2020 14:30 (30 minutes)*

Short summary of the work done so far to test the algorithm of cluster reconstruction inside the calorimeter

**Primary authors:** CAVANNA, Francesca (GE); SCAVARDA, Lorenzo (TO)

**Presenter:** CAVANNA, Francesca (GE)

**Session Classification:** Analysis

Contribution ID: 5

Type: **Detectors**

## **Data analysis of the CNAO testbeam and study of the optical photons absorption in the BGO crystals**

*Thursday, 10 December 2020 11:10 (30 minutes)*

My talk will foresee:

- data analysis of the CNAO testbeam performed in August
- study of the optical photons absorption in the BGO crystals through MC simulations

**Primary authors:** SCAVARDA, Lorenzo (TO); ARGIRO', Stefano (TO); BARTOSIK, Nazar (TO); CAVANNA, Francesca (GE); CERELLO, Piergiorgio (TO); RAMELLO, Luciano (TO)

**Presenter:** SCAVARDA, Lorenzo (TO)

**Session Classification:** Detectors (2)

Contribution ID: 6

Type: **Detectors**

## Calorimeter Status Report

*Thursday, 10 December 2020 12:10 (30 minutes)*

Review of the status of the development / construction

**Presenters:** CERELLO, Piergiorgio (INFN); CERELLO, Piergiorgio (TO)

**Session Classification:** Detectors (2)

Contribution ID: 7

Type: **Simulation**

## **Simulation of the optical transport in the Calorimeter**

*Thursday, 10 December 2020 10:10 (30 minutes)*

The simulation workflow developed in Geant4 is described, and the application to the FOOT calorimeter is presented.

**Primary author:** CIARROCCHI, Esther (INFN Pisa)

**Presenter:** CIARROCCHI, Esther (INFN Pisa)

**Session Classification:** Detectors (2)



Contribution ID: 8

Type: **Detectors**

## Status Report of the TOF-WALL detector

*Wednesday, 9 December 2020 16:00 (30 minutes)*

Status Report of the TOF-WALL detector and timeline for future developments

**Primary author:** MORROCCHI, MATTEO (PI)

**Presenter:** MORROCCHI, MATTEO (PI)

**Session Classification:** Detectors

Contribution ID: 9

Type: **Detectors**

## **Characterization of the SiPMs of the TOF-WALL Detector**

*Wednesday, 9 December 2020 16:30 (30 minutes)*

Characterization of the SiPMs of the TOF-WALL Detector and study of the light attenuation in the scintillator bar.

**Primary author:** MONTEFIORI, Marco (INFN Sezione di Pisa)

**Presenter:** MONTEFIORI, Marco (INFN Sezione di Pisa)

**Session Classification:** Detectors

Contribution ID: **10**

Type: **Detectors**

## **Calorimeter temperature monitoring system**

*Thursday, 10 December 2020 11:40 (30 minutes)*

A scheme for the readout of the NTC temperature sensors present on the Calotimeter SiPM tiles will be presented

**Primary author:** RAMELLO, Luciano (TO)

**Co-author:** CERELLO, Piergiorgio (TO)

**Presenter:** RAMELLO, Luciano (TO)

**Session Classification:** Detectors (2)

Contribution ID: 11

Type: **Data analysis**

## **Updates on neutron data in the literature and possible setup for the CNAO and GSI test**

*Thursday, 10 December 2020 17:30 (30 minutes)*

I am going to present an overview of the neutron data in the literature, and propose a possible ancillary setup - consisting of an array of neutron detectors - to be used in the forthcoming tests at CNAO and GSI

**Primary author:** MASSIMI, Cristian (BO)

**Presenter:** MASSIMI, Cristian (BO)

**Session Classification:** Analysis

Contribution ID: 16

Type: **not specified**

## **Analysis of the GSI data acquired in 2019 with the emulsion chamber**

*Thursday, 10 December 2020 15:00 (30 minutes)*

**Presenter:** GALATI, Giuliana (NA)

**Session Classification:** Analysis

Contribution ID: 17

Type: **not specified**

## **Z identification with 2019 data acquired at CNAO and GSI**

*Thursday, 10 December 2020 15:30 (30 minutes)*

**Presenters:** ZARRELLA, Roberto (Università di Bologna); ZARRELLA, Roberto (Istituto Nazionale di Fisica Nucleare)

**Session Classification:** Analysis

Contribution ID: **18**

Type: **not specified**

## **Update on the charge cross section measurements with 2019 data acquired at CNAO and GSI**

*Thursday, 10 December 2020 16:00 (30 minutes)*

**Presenter:** TOPPI, Marco (LNF)

**Session Classification:** Analysis

Contribution ID: 19

Type: **not specified**

## **Update on the Cross Section of 12C fragmentation**

*Thursday, 10 December 2020 18:00 (30 minutes)*

**Presenter:** MATTEI, ILARIA (MI)

**Session Classification:** Analysis



Contribution ID: 20

Type: **not specified**

## Neutron detection at CNAO

*Thursday, 10 December 2020 09:50 (20 minutes)*

**Presenter:** MARAFINI, Michela (Centro Fermi)

**Session Classification:** Detectors (2)

Contribution ID: 21

Type: **not specified**

## **FOOT software status and perspectives**

**Presenters:** SARTI, Alessio (LNF); FINCK, Christian (CNRS-In2p3)

**Session Classification:** Software

Contribution ID: 22

Type: **not specified**

## **CNAO 2020 simulation**

**Presenter:** BATTISTONI, Giuseppe (MI)

**Session Classification:** Software

Contribution ID: 23

Type: **not specified**

## **Statistical considerations for the next data taking at CNAO**

*Thursday, 10 December 2020 17:00 (30 minutes)*

**Presenter:** KRAAN, Aafke Christine (PI)

**Session Classification:** Analysis

Contribution ID: 24

Type: **not specified**

## **Report by the run coordinators**

**Presenter:** TRAINI, Giacomo (ROMA1)

**Session Classification:** 15th morning session

Contribution ID: 25

Type: **not specified**

## Report on Beam Monitor

*Wednesday, 9 December 2020 14:30 (30 minutes)*

**Presenter:** DONG, Yunsheng (MI)

**Session Classification:** Detectors

Contribution ID: 26

Type: **not specified**

## **Report on VTX - IT**

*Wednesday, 9 December 2020 15:00 (30 minutes)*

**Primary author:** Mr SPIRITI, Eleuterio (LNF)

**Presenters:** FINCK, Christian (CNRS-In2p3); Mr SPIRITI, Eleuterio (LNF)

**Session Classification:** Detectors

Contribution ID: 27

Type: **not specified**

## Report on MSD

*Wednesday, 9 December 2020 15:30 (30 minutes)*

**Presenter:** SERVOLI, Leonello (PG)

**Session Classification:** Detectors



Contribution ID: 28

Type: **not specified**

## Magnet BID status

*Wednesday, 9 December 2020 17:15 (10 minutes)*

**Presenter:** MOGGI, Andrea (PI)

**Session Classification:** Detectors

Contribution ID: 29

Type: **not specified**

## DAQ status

*Wednesday, 9 December 2020 17:25 (30 minutes)*

**Presenter:** BIONDI, Silvia (BO)

**Session Classification:** Detectors

Contribution ID: **30**

Type: **not specified**

## **Report on trigger and wavedaq**

*Wednesday, 9 December 2020 17:55 (30 minutes)*

**Presenter:** GALLI, Luca (PI)

**Session Classification:** Detectors

Contribution ID: 31

Type: **not specified**

## Report from Run coordinators

*Thursday, 10 December 2020 09:30 (20 minutes)*

**Presenter:** TRAINI, Giacomo (ROMA1)

**Session Classification:** Detectors (2)

Contribution ID: **32**

Type: **not specified**

## **Software status and perspectives**

*Friday, 11 December 2020 09:30 (30 minutes)*

**Presenters:** SARTI, Alessio (LNF); FINCK, Christian (CNRS-In2p3)

**Session Classification:** 15th morning session

Contribution ID: 33

Type: **Software**

## **CNAO 2020 simulation and status of FLUKA development**

*Friday, 11 December 2020 10:00 (30 minutes)*

**Presenter:** BATTISTONI, Giuseppe (MI)

**Session Classification:** 15th morning session

Contribution ID: 34

Type: **not specified**

## Editorial Board report

*Friday, 11 December 2020 10:30 (20 minutes)*

**Presenter:** LA TESSA, Chiara (TIFP)

**Session Classification:** 15th morning session