

CYGNO Collaboration Meeting 2022

Report of Contributions

Contribution ID: 9

Type: **not specified**

Welcome from the INFN-Roma Director

Monday, 19 December 2022 09:30 (5 minutes)

Presenter: NISATI, Aleandro (Istituto Nazionale di Fisica Nucleare)

Session Classification: General Overview

Contribution ID: **10**

Type: **not specified**

MeV-GeV direct detection overview

Monday, 19 December 2022 09:35 (20 minutes)

Presenter: GRILLI DI CORTONA, Giovanni (Istituto Nazionale di Fisica Nucleare)

Session Classification: General Overview

Contribution ID: **11**

Type: **not specified**

Light Dark Matter detection

Monday, 19 December 2022 09:55 (30 minutes)

Presenter: ESPOSITO, Angelo (Istituto Nazionale di Fisica Nucleare)

Session Classification: General Overview

Contribution ID: 12

Type: **not specified**

Panorama of low dark mass experimental status and plans

Presenter: BARACCHINI, Elisabetta (Istituto Nazionale di Fisica Nucleare)

Session Classification: General Overview

Contribution ID: **13**

Type: **not specified**

Status of CYGNO project

Presenter: PINCI, Davide (Istituto Nazionale di Fisica Nucleare)

Session Classification: General Overview

Contribution ID: **14**

Type: **not specified**

Discussion - All

Session Classification: General Overview

Contribution ID: 15

Type: **not specified**

Analysis summary of ^{55}Fe runs

Monday, 19 December 2022 14:00 (20 minutes)

Presenters: CRUZ ROQUE, Rita Joana (Laboratory for Instrumentation, Biomedical Engineering and Radiation Physics); ROQUE, Rita

Session Classification: LIME Overground and R&D

Contribution ID: 16

Type: **not specified**

Review on the enhancement of light yield with the addition of a strong electric field below the last GEM

Monday, 19 December 2022 14:40 (20 minutes)

Presenter: DHO, Giorgio (Istituto Nazionale di Fisica Nucleare)

Session Classification: LIME Overground and R&D

Contribution ID: 17

Type: **not specified**

Overview of the studies on He-CF₄ mixtures with hydrocarbon additives performed during the past year in Coimbra

Monday, 19 December 2022 14:20 (20 minutes)

Presenters: CRUZ ROQUE, Rita Joana (Laboratory for Instrumentation, Biomedical Engineering and Radiation Physics); PASSOS MANO, Rui Daniel

Session Classification: LIME Overground and R&D

Contribution ID: **18**

Type: **not specified**

Negative Ions operation

Monday, 19 December 2022 15:00 (30 minutes)

Presenter: BARACCHINI, Elisabetta (Istituto Nazionale di Fisica Nucleare)

Session Classification: LIME Overground and R&D

Contribution ID: **19**

Type: **not specified**

Response linearity and natural background studies

Monday, 19 December 2022 15:30 (30 minutes)

Presenter: DI MARCO, Emanuele (Istituto Nazionale di Fisica Nucleare)

Session Classification: LIME Overground and R&D

Contribution ID: 20

Type: **not specified**

Summary and plans of LIME operations

Monday, 19 December 2022 17:55 (20 minutes)

Presenter: PIACENTINI, Stefano (Istituto Nazionale di Fisica Nucleare)

Session Classification: LIME Underground

Contribution ID: **21**

Type: **not specified**

LIME activities plan

Monday, 19 December 2022 17:20 (15 minutes)

Presenter: MAZZITELLI, Giovanni (Istituto Nazionale di Fisica Nucleare)

Session Classification: LIME Underground

Contribution ID: 22

Type: **not specified**

Simulation of background in LIME

Monday, 19 December 2022 17:35 (20 minutes)

Presenter: DI GIAMBATTISTA, Flaminia (Istituto Nazionale di Fisica Nucleare)

Session Classification: LIME Underground

Contribution ID: 23

Type: **not specified**

PMT simulation

Monday, 19 December 2022 18:30 (15 minutes)

Presenters: NOBREGA, Rafael Antunes; ANTUNES NOBREGA, Rafael (RM1)

Session Classification: LIME Underground

Contribution ID: 24

Type: **not specified**

Summary of detector response simulation

Monday, 19 December 2022 19:05 (20 minutes)

Presenter: PETRUCCI, Fabrizio (Istituto Nazionale di Fisica Nucleare)

Session Classification: LIME Underground

Contribution ID: 25

Type: **not specified**

PMT signal studies

Monday, 19 December 2022 18:45 (20 minutes)

Presenter: BORRA, Francesco (Istituto Nazionale di Fisica Nucleare)

Session Classification: LIME Underground

Contribution ID: 26

Type: **not specified**

The CYGNO 04 project

Tuesday, 20 December 2022 09:00 (20 minutes)

Presenter: MAZZITELLI, Giovanni (Istituto Nazionale di Fisica Nucleare)

Session Classification: CYGNO 04

Contribution ID: 27

Type: **not specified**

Background simulation for CYGNO04 detector

Tuesday, 20 December 2022 09:20 (20 minutes)

Presenter: D'IMPERIO, Giulia (Istituto Nazionale di Fisica Nucleare)

Session Classification: CYGNO 04

Contribution ID: **28**

Type: **not specified**

Results from the radioactivity scrutiny

Tuesday, 20 December 2022 09:40 (10 minutes)

Presenter: CALANCA, Anna (LNF)

Session Classification: CYGNO 04

Contribution ID: 29

Type: **not specified**

Status and plans of the middleware

Tuesday, 20 December 2022 10:20 (20 minutes)

Presenter: ABRITTA COSTA, Igor (Università degli Studi Roma Tre)

Session Classification: CYGNO 04

Contribution ID: **30**

Type: **not specified**

Gas purification studies

Tuesday, 20 December 2022 10:00 (20 minutes)

Presenter: MARCELO GREGORIO, Robert Renz (University of Sheffield)

Session Classification: CYGNO 04

Contribution ID: **31**

Type: **not specified**

Computing infrastructure

Tuesday, 20 December 2022 11:00 (20 minutes)

Presenter: MAZZITELLI, Giovanni (Istituto Nazionale di Fisica Nucleare)

Session Classification: General

Contribution ID: 32

Type: **not specified**

Discussion on the measurements of QF

Tuesday, 20 December 2022 11:40 (20 minutes)

Presenter: DI GIAMBATTISTA, Flaminia (Istituto Nazionale di Fisica Nucleare)

Session Classification: General

Contribution ID: 33

Type: **not specified**

Design and development of trigger-less trigger for CYGNO Data Acquisition System

Tuesday, 20 December 2022 11:20 (20 minutes)

Presenter: PAINS, Igor

Session Classification: General

Contribution ID: 34

Type: **not specified**

Feasibility of a directional solar neutrino measurement with the CYGNO experiment

Tuesday, 20 December 2022 12:00 (20 minutes)

Presenter: TORELLI, Samuele (Istituto Nazionale di Fisica Nucleare)

Session Classification: General

Contribution ID: 35

Type: **not specified**

MANGO-COMIMAC integration

Tuesday, 20 December 2022 12:20 (10 minutes)

Presenter: GASPAR MARQUES, David José (Istituto Nazionale di Fisica Nucleare)

Session Classification: General

Contribution ID: **36**

Type: **not specified**

Conclusion and goodbye

Tuesday, 20 December 2022 12:30 (20 minutes)

Session Classification: General

Contribution ID: 37

Type: **not specified**

Panorama of low dark mass experimental status and plan

Monday, 19 December 2022 11:00 (30 minutes)

Presenter: BARACCHINI, Elisabetta (Istituto Nazionale di Fisica Nucleare)

Session Classification: General experimental overview

Contribution ID: **38**

Type: **not specified**

Status of CYGNO project

Monday, 19 December 2022 11:30 (30 minutes)

Presenter: PINCI, Davide (Istituto Nazionale di Fisica Nucleare)

Session Classification: General experimental overview

Contribution ID: 39

Type: **not specified**

Discussion - All

Monday, 19 December 2022 12:00 (30 minutes)

Session Classification: General experimental overview

Contribution ID: 40

Type: **not specified**

Rejecting electron background using machine learning algorithms

Monday, 19 December 2022 18:15 (15 minutes)

Presenter: PRAJAPATI, Atul (Istituto Nazionale di Fisica Nucleare)

Session Classification: LIME Underground

Contribution ID: 41

Type: **not specified**

Results and plans on the radioactivity of the optical system

Tuesday, 20 December 2022 09:50 (10 minutes)

Presenter: RENGA, Francesco (Istituto Nazionale di Fisica Nucleare)

Session Classification: CYGNO 04