

# **3rd PANDORA Progress Meeting**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

## Project status and overview

**Presenters:** Dr MASCALI, David (INFN-LNS); SANTONOCITO, Domenico (INFN-LNS)

Contribution ID: 2

Type: **not specified**

## Project status and overview

*Monday, 7 October 2024 09:30 (15 minutes)*

**Presenters:** MASCALI, David (INFN-LNS); SANTONOCITO, Domenico (INFN-LNS)

**Session Classification:** Facility Construction 1- Chair Domenico Santonocito

Contribution ID: 3

Type: **not specified**

## **Final installation site of the PANDORA facility**

*Monday, 7 October 2024 09:45 (15 minutes)*

TBD

**Session Classification:** Facility Construction 1- Chair Domenico Santonocito

Contribution ID: 4

Type: **not specified**

# The PANDORA plasma trap: numerical modeling and technical design

*Monday, 7 October 2024 10:00 (30 minutes)*

**Presenter:** MAURO, Giorgio Sebastiano (INFN-LNS)

**Session Classification:** Facility Construction 1- Chair Domenico Santonocito

Contribution ID: 5

Type: **not specified**

## **The PANDORA multi-diagnostics system and the novel multi-detectors test-facility**

*Monday, 7 October 2024 10:30 (20 minutes)*

**Presenter:** NASELLI, Eugenia (INFN-LNS)

**Session Classification:** Facility Construction 1- Chair Domenico Santonocito

Contribution ID: 6

Type: **not specified**

## Update on RF systems for plasma heating

*Monday, 7 October 2024 10:50 (20 minutes)*

**Presenter:** TORRISI, Giuseppe (INFN-LNS)

**Session Classification:** Facility Construction 1- Chair Domenico Santonocito

Contribution ID: 7

Type: **not specified**

## HPGe Array status

*Monday, 7 October 2024 11:40 (25 minutes)*

**Presenter:** SANTONOCITO, Domenico (INFN-LNS)

**Session Classification:** Facility Construction 2 - Chair Alessio Galatà



Contribution ID: 8

Type: **not specified**

## DAQ for HPGe array

*Monday, 7 October 2024 12:05 (20 minutes)*

**Presenter:** GOASDUFF, Alain (INFN-LNL)

**Session Classification:** Facility Construction 2 - Chair Alessio Galatà

Contribution ID: 9

Type: **not specified**

## Plasma chamber construction in AM

*Monday, 7 October 2024 12:25 (25 minutes)*

**Presenter:** PEPATO, Adriano (INFN Padova)

**Session Classification:** Facility Construction 2 - Chair Alessio Galatà

Contribution ID: **10**

Type: **not specified**

## **The Active Plasma Inner Chamber: status update**

*Monday, 7 October 2024 12:50 (30 minutes)*

**Presenter:** ODORICI, Fabrizio (INFN Bologna)

**Session Classification:** Facility Construction 2 - Chair Alessio Galatà

Contribution ID: 11

Type: **not specified**

## **Radioactive isotopes injection techniques**

*Monday, 7 October 2024 14:30 (25 minutes)*

**Presenter:** GALATÀ, Alessio (INFN-LNL)

**Session Classification:** Experimental Approach - Chair Sergio Cristallo

Contribution ID: 12

Type: **not specified**

## Thomson scattering

*Monday, 7 October 2024 14:55 (20 minutes)*

**Presenter:** TSIKATA, Sedina (Georgia Institute of Technology)

**Session Classification:** Experimental Approach - Chair Sergio Cristallo

Contribution ID: 13

Type: **not specified**

## **Update on mm-wave polarimetry for average plasma density measurement**

*Monday, 7 October 2024 15:15 (20 minutes)*

**Presenter:** TORRISI, Giuseppe (INFN-LNS)

**Session Classification:** Experimental Approach - Chair Sergio Cristallo

Contribution ID: 14

Type: **not specified**

## **In-plasma opacity: the physics case and the experimental design**

*Monday, 7 October 2024 15:35 (30 minutes)*

**Presenter:** PIDATELLA, Angelo (INFN-LNS)

**Session Classification:** Experimental Approach - Chair Sergio Cristallo

Contribution ID: 15

Type: **not specified**

## **X-ray imaging diagnostics and AI analysis algorithm development**

*Monday, 7 October 2024 16:05 (25 minutes)*

**Presenters:** FINOCCHIARO, Giorgio (INFN-LNS); PERI, Bianca (INFN-LNS)

**Session Classification:** Experimental Approach - Chair Sergio Cristallo



Contribution ID: 16

Type: **not specified**

## **Gedankenexperiment for PANDORA - Plasma modelling**

*Monday, 7 October 2024 17:00 (30 minutes)*

**Presenters:** MISHRA, Bharat (INFN-LNS); PIDATELLA, Angelo (INFN-LNS)

**Session Classification:** Theory and Simulations 1 - Chair David Mascali

Contribution ID: 17

Type: **not specified**

## **r-process nucleosynthesis and Kilonovae in the PANDORA project**

*Monday, 7 October 2024 17:30 (30 minutes)*

**Presenter:** CRISTALLO, Sergio (INFN Perugia)

**Session Classification:** Theory and Simulations 1 - Chair David Mascalì

Contribution ID: **18**

Type: **not specified**

## **Atomic inputs and opacity for the Kilonovae light curve**

*Monday, 7 October 2024 18:00 (30 minutes)*

**Presenter:** BEZMALINOVICH, Matteo (Università Sapienza Roma)

**Session Classification:** Theory and Simulations 1 - Chair David Mascali

Contribution ID: 19

Type: **not specified**

## **Estimation of the beta-decay rates of $^{85}\text{Kr}$ , $^{93}\text{Zr}$ , $^{87}\text{Rb}$ and $^{176}\text{Lu}$**

*Tuesday, 8 October 2024 09:00 (20 minutes)*

**Presenter:** TRIGGIANI, Francesca (Università Camerino)

**Session Classification:** Theory and Simulations 2 - Chair Maurizio Maria Busso

Contribution ID: 20

Type: **not specified**

## **The s- and r-process perspectives for the production of nuclei beyond Sr**

*Tuesday, 8 October 2024 09:20 (20 minutes)*

**Presenters:** BUSSO, Maurizio Maria (INFN Perugia); PALMERINI, Sara (INFN Perugia)

**Session Classification:** Theory and Simulations 2 - Chair Maurizio Maria Busso

Contribution ID: 21

Type: **not specified**

## Updates about DHF calculations of b-decays for PANDORA physics cases

*Tuesday, 8 October 2024 09:40 (30 minutes)*

TBD

**Session Classification:** Theory and Simulations 2 - Chair Maurizio Maria Busso

Contribution ID: 22

Type: **not specified**

## **Gedankenexperiment for PANDORA - Beta Decay Rates**

*Tuesday, 8 October 2024 10:10 (30 minutes)*

**Presenter:** MISHRA, Bharat (INFN-LNS)

**Session Classification:** Theory and Simulations 2 - Chair Maurizio Maria Busso

Contribution ID: 23

Type: **not specified**

## Updated physics cases for PANDORA

*Tuesday, 8 October 2024 10:40 (20 minutes)*

**Presenter:** MENGONI, Alberto (INFN Bologna)

**Session Classification:** Theory and Simulations 2 - Chair Maurizio Maria Busso



Contribution ID: 24

Type: **not specified**

## **Future perspectives for PANDORA - towards EUPRAXIA**

*Tuesday, 8 October 2024 14:30 (30 minutes)*

**Presenter:** PISANO, Silvia (INFN-LNF)

Contribution ID: 25

Type: **not specified**

## **Social Dinner @Villa Sagredo**

Contribution ID: 26

Type: **not specified**

## **Radioactive Decay of Highly Charged Ions (Seminar)**

*Tuesday, 8 October 2024 11:30 (1 hour)*

**Presenter:** LITVINOV, Yuri (GSI, Darmstadt)