

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 techical 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 Mascalì

Contribution ID: **19**

Type: **not specified**

Estimation of the beta-decay rates of ^{85}Kr , ^{93}Zr , ^{87}Rb and ^{176}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)