

# **The 12th European Summer School on Experimental Nuclear Astrophysics**

## **Report of Contributions**

Contribution ID: 2

Type: **not specified**

## Welcome from authorities

*Monday, 17 June 2024 09:00 (30 minutes)*

Contribution ID: 3

Type: **not specified**

# The Physics of low energy reaction rates

*Monday, 17 June 2024 09:30 (50 minutes)*

**Presenter:** WIESCHER, Michael (University of Notre Dame)

Contribution ID: 4

Type: **not specified**

# Primordial Nucleosynthesis after Planck

*Monday, 17 June 2024 10:20 (50 minutes)*

**Presenter:** KAJINO, Taka (National Astronomical Observatory of Japan, The University of Tokyo)

Contribution ID: 5

Type: **not specified**

## **Stellar Evolution and standard solar models**

*Monday, 17 June 2024 14:00 (1h 40m)*

**Presenter:** STRANIERO, Oscar (INAF)

Contribution ID: 6

Type: **not specified**

## Compact Object Equation of State

*Monday, 17 June 2024 15:40 (50 minutes)*

**Presenter:** GULMINELLI, Francesca (Unicaen/LPC/Ensicaen)

Contribution ID: 7

Type: **not specified**

## **Cleaning up the nucleosynthesis origins of metal-poor r- process abundance observations part I**

**Presenter:** KRATZ, Karl-Ludwig (Johannes-Gutenberg University Mainz)

Contribution ID: 8

Type: **not specified**

## **Cleaning up the nucleosynthesis origins of metal-poor r- process abundance observations part II**

**Presenter:** KRATZ, Karl-Ludwig (Johannes-Gutenberg University Mainz)



Contribution ID: **10**

Type: **not specified**

## Neutrino induced nucleosynthesis

*Tuesday, 18 June 2024 09:00 (50 minutes)*

**Presenter:** KAJINO, Taka (National Astronomical Observatory of Japan, The University of Tokyo)

Contribution ID: **11**

Type: **not specified**

## **Stellar chemical compositions and open questions**

*Tuesday, 18 June 2024 09:50 (50 minutes)*

**Presenter:** KORN, Andreas (Uppsala University)

Contribution ID: **12**

Type: **not specified**

## Galactic chemical evolution

*Tuesday, 18 June 2024 11:00 (50 minutes)*

**Presenter:** ROMANO, Donatella (INAF, Astrophysics and Space Science Observatory, Bologna)

Contribution ID: 13

Type: **not specified**

# **Nuclear Clusters and their Role in Nucleosyntheses**

*Tuesday, 18 June 2024 11:50 (50 minutes)*

**Presenter:** ROGACHEV, Grigory (Texas A&M University)

Contribution ID: 14

Type: **not specified**

## **RIB: production and experiments**

*Tuesday, 18 June 2024 14:30 (45 minutes)*

**Presenter:** MAZZOCCO, Marco (Istituto Nazionale di Fisica Nucleare)

Contribution ID: 15

Type: **not specified**

## **Nuclear Astrophysics with RIBs at CRIB**

*Tuesday, 18 June 2024 15:15 (45 minutes)*

**Presenter:** YAMAGUCHI, Hidetoshi (Center for Nuclear Study, the University of Tokyo)

Contribution ID: **16**

Type: **not specified**

## **Storage rings for nuclear astrophysics**

*Tuesday, 18 June 2024 16:30 (45 minutes)*

**Presenter:** LITVINOV, Yuri (GSI Helmholtzzentrum für Schwerionenforschung)

Contribution ID: 17

Type: **not specified**

## Update of the triple alpha reaction rate

*Tuesday, 18 June 2024 17:15 (45 minutes)*

**Presenter:** KAWABATA, Takahiro (Department of Physics, Osaka University)



Contribution ID: **18**

Type: **not specified**

## Indirect methods

*Wednesday, 19 June 2024 09:00 (1h 10m)*

**Presenter:** BERTULANI, Carlos (Texas A&M University-Commerce)

Contribution ID: **19**

Type: **not specified**

## **Guidelines to THM applications**

*Wednesday, 19 June 2024 10:10 (30 minutes)*

**Presenter:** SPARTA', Roberta (Istituto Nazionale di Fisica Nucleare)

Contribution ID: 20

Type: **not specified**

# Supernova Nucleosynthesis

*Wednesday, 19 June 2024 11:00 (50 minutes)*

**Presenter:** FROHLICH, Carla (NC State University)

Contribution ID: **21**

Type: **not specified**

## **Experimental studies for explosive nucleosynthesis**

*Wednesday, 19 June 2024 11:50 (50 minutes)*

**Presenter:** AHN, Sunghoon (Tony) (Center for Exotic Nuclear Studies, Institute for Basic Science)

Contribution ID: 22

Type: **not specified**

## The ERNA facility

*Wednesday, 19 June 2024 12:40 (50 minutes)*

**Presenter:** BUOMPANE, Raffaele (Istituto Nazionale di Fisica Nucleare)

Contribution ID: 23

Type: **not specified**

## Nuclear astrophysics at LUNA

*Thursday, 20 June 2024 09:00 (50 minutes)*

**Presenter:** ALIOTTA, Marialuisa

Contribution ID: 24

Type: **not specified**

## The n\_ToF facility for nuclear astrophysics

*Friday, 21 June 2024 09:00 (50 minutes)*

**Presenter:** COSENTINO, Luigi Giovanni (Istituto Nazionale di Fisica Nucleare)

Contribution ID: 25

Type: **not specified**

## Nuclear astrophysics with R-matrix

*Thursday, 20 June 2024 11:00 (50 minutes)*

**Presenter:** BRUNE, Carl R. (Ohio University)



Contribution ID: 26

Type: **not specified**

## **r-process nucleosynthesis: an experimental approach**

*Thursday, 20 June 2024 11:50 (50 minutes)*

**Presenter:** SPYROU, Artemis (NSCL/MSU)

Contribution ID: 27

Type: **not specified**

## Nuclear Astrophysics at ELI-NP

*Thursday, 20 June 2024 16:00 (50 minutes)*

**Presenter:** MATEI, Catalin (ELI-NP)

Contribution ID: 28

Type: **not specified**

## **To be(t) or not to be(t): a Bayesian approach to statistical data analysis**

*Thursday, 20 June 2024 16:50 (50 minutes)*

**Presenter:** PISANO, Silvia (Istituto Nazionale di Fisica Nucleare)

Contribution ID: 29

Type: **not specified**

# **The PANDORA project: an experimental setup for measuring in-plasma $\bar{\nu}$ -decays of astrophysical interest**

*Thursday, 20 June 2024 09:50 (50 minutes)*

**Presenter:** Dr MASCALI, David (LNS)

Contribution ID: **30**

Type: **not specified**

## **Resonant Scattering and its recent applications**

*Friday, 21 June 2024 09:50 (50 minutes)*

**Presenter:** GOLDBERG, Vladilen (Cyclotron Institute, Texas A&M University, College Station, Texas, USA)

Contribution ID: **31**

Type: **not specified**

## **Laser induced reactions for nuclear astrophysics**

*Friday, 21 June 2024 11:00 (50 minutes)*

**Presenter:** LATTUADA, Dario (Istituto Nazionale di Fisica Nucleare)

Contribution ID: 32

Type: **not specified**

## **Exploring the origin of the rarest stable isotopes naturally occurring on Earth with photon beams**

*Friday, 21 June 2024 11:50 (50 minutes)*

**Presenter:** BANU, adriana (james madison university)

Contribution ID: 33

Type: **not specified**

## **Developing system arrays for new experimental approaches in nuclear astrophysics**

*Friday, 21 June 2024 12:40 (30 minutes)*

**Presenter:** GUARDO, Giovanni Luca (Istituto Nazionale di Fisica Nucleare)



Contribution ID: **34**

Type: **not specified**

## Final Remarks

*Friday, 21 June 2024 18:00 (30 minutes)*

**Primary author:** Prof. PIZZONE, Rosario Gianluca (The University of Catania and Istituto Nazionale di Fisica Nucleare)

**Co-author:** LAMIA, Livio (Istituto Nazionale di Fisica Nucleare)

**Presenters:** LAMIA, Livio (Istituto Nazionale di Fisica Nucleare); Prof. PIZZONE, Rosario Gianluca (The University of Catania and Istituto Nazionale di Fisica Nucleare)