

19th Russbach School on Nuclear Astrophysics



Report of Contributions

Contribution ID: 1

Type: **not specified**

Nuclear astrophysics: an introduction - part 1 and 2

Presenter: ALIOTTA, Marialuisa

Contribution ID: 2

Type: **not specified**

Advanced techniques and indirect methods

Presenter: GUARDO, Giovanni Luca

Contribution ID: 3

Type: **not specified**

The $^{19}\text{F}(\text{p},\alpha)$ reaction studied via trojan horse method

Presenter: VUKMAN, Nikola

Contribution ID: 4

Type: **not specified**

Nuclear astrophysics: an introduction - part 1 and 2

Presenter: ALIOTTA, Marialuisa

Contribution ID: 5

Type: **not specified**

Constraining electron capture rates with (d,2He) in inverse kinematics

Presenter: RAHMAN, Zarif

Contribution ID: 6

Type: **not specified**

Historical developments and moments in nuclear astrophysics

Presenter: WIESCHER, Michael

Contribution ID: 7

Type: **not specified**

Neutron cross section measurements of astrophysical interest at n_TOF

Presenter: LERENDEGUI-MARCO, Jorge

Contribution ID: 8

Type: **not specified**

Direct and indirect measurements of $^{22}\text{Ne}(\alpha,\gamma)^{26}\text{Mg}$

Presenter: MERCOGLIANO, Daniela

Contribution ID: 9

Type: **not specified**

Stellar modelling: an introduction

Presenter: VESCOVI, Diego

Contribution ID: **10**

Type: **not specified**

Core-collapse supernovae: explosion dynamics, multi-messenger emission, explosive nucleosynthesis

Presenter: BUGLI, Matteo

Contribution ID: 11

Type: **not specified**

High resolution simulations of the interaction between nova/supernova ejecta and the nearby accretion disk

Presenter: SANZ, Axel

Contribution ID: 12

Type: **not specified**

Constraints on nucleosynthesis from chemical abundances of metal-poor stars

Presenter: HOPPE, Richard

Contribution ID: 13

Type: **not specified**

Inspecting the mass-loss and dust production of evolved stars

Presenter: TOSI, Silvia

Contribution ID: 14

Type: **not specified**

Nucleosynthesis in 3D stellar evolution models

Presenter: RIZZUTI, Federico

Contribution ID: 15

Type: **not specified**

Isotopic anomalies in meteorites: an introduction

Presenter: BURKHARDT, Christoph

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Type: **not specified**

Nuclear burning recorded in meteorites as a tracer of the birth of the solar system

Maria Lugaro

Presenter: LUGARO, Maria

Contribution ID: 17

Type: **not specified**

p process and presolar grains

Presenter: ONG, Wei Jia

Contribution ID: **18**

Type: **not specified**

Tracing solar system evolution with isotopic anomalies in meteorites

Presenter: BURKHARDT, Christoph

Contribution ID: **19**

Type: **not specified**

Nuclear reaction theory for astrophysics and other applications

Presenter: ESCHER, Jutta

Contribution ID: 20

Type: **not specified**

Nuclear properties at finite temperatures in energy density functional theory

Presenter: PAAR, Nils

Contribution ID: 21

Type: **not specified**

γ strength functions for (n, γ) reactions based on relativistic density-dependent point coupling interaction

Presenter: KÜÇÜKSUCU, Sema

Contribution ID: 22

Type: **not specified**

Cooling of rapidly rotating neutron stars in 2D

Presenter: BEZNOGOV, Mikhail

Contribution ID: 23

Type: **not specified**

Photo strength functions for astrophysical applications

Presenter: LE NOAN, Oscar

Contribution ID: 24

Type: **not specified**

Fast emulation of neutron star properties

Presenter: REED, Brendan

Contribution ID: 25

Type: **not specified**

R-process Introduction

Presenter: Mr GIULIANI, Samuel

Contribution ID: 26

Type: **not specified**

The r-process alliance: mapping the r-process with stellar abundances

Presenter: Ms RACCA, Mila

Contribution ID: 27

Type: **not specified**

Fission, superheavy elements, and the r-process

Presenter: Ms APRAHAMIAN, Ani

Contribution ID: 28

Type: **not specified**

A practical approach to nuclear astrophysics: activation method studies on $^{86}\text{Kr}(\alpha, n)$ and its connection to weak r-process

Presenter: Mr KOVÁCS, Sándor

Contribution ID: 29

Type: **not specified**

Neutron capture reaction of r- process in common envelop jet supernova

Presenter: Mr JIN, Shilun

Contribution ID: **30**

Type: **not specified**

Barium stars for constraining aysymptotic giant branch nucleosynthesis

Presenter: Ms VILÁGOS, Blanka

Contribution ID: **31**

Type: **not specified**

Stellar spectroscopy: an introduction

Presenter: Mr MATSUNO, Tadafumi

Contribution ID: 32

Type: **not specified**

Elusive nature of post asymptotic giant branch chemical distributions

Presenter: Ms KAMATH, Devika

Contribution ID: 33

Type: **not specified**

Thermonuclear supernovae: an observer's perspective

Presenter: Mr PATAT, Ferdinando

Contribution ID: 34

Type: **not specified**

The supernova link between the local bubble and deep sea radioisotopes

Presenter: Mr SCHULREICH, Michael

Contribution ID: 35

Type: **not specified**

Entering in the new era of multimessenger astrophysics: what we have learned up to now?

Presenter: Ms CUTINI, Sara

Contribution ID: 36

Type: **not specified**

From stellar spectroscopy to galactic chemical evolution

Presenter: Mr MATSUNO, Tadafumi

Contribution ID: 37

Type: **not specified**

Atomic recipes for astronomical transients

Presenter: Mr CRISTALLO, Sergio

Contribution ID: **38**

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Neutron sources in stars

Presenter: Mr WIESCHER, Michael

Contribution ID: 39

Type: **not specified**

(α, n) and (α, γ) key reaction studies using alpha-transfer reactions

Presenter: Ms HAMMACHE, Faïrouz

Contribution ID: 40

Type: **not specified**

Study of ion-ion fusion reactions at sub-barrier energies for nuclear astrophysics

Presenter: Ms SPIRIDON, Alexandra

Contribution ID: 41

Type: **not specified**

A new neutron detection array for cross section measurements at IFIN-HH

Presenter: Mr FILIPESCU, Dan

Contribution ID: 42

Type: **not specified**

Exploring calcium discrepancies in nova models

Presenter: Ms LORIA, Mallory

Contribution ID: 43

Type: **not specified**

Results of total cross-section measurements of the $^{87}\text{Rb}(p,\gamma)^{88}\text{Sr}$ reaction

Presenter: Ms WILDEN, Svenja

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Electron screening: answer to an old problem from new perspective

Presenter: Ms CVETINOVIĆ, Aleksandra

Contribution ID: 45

Type: **not specified**

Electron screening in low energy reactions

Presenter: Mr LIPOGLAVSEK, Matej

Contribution ID: 46

Type: **not specified**

Nuclear astrophysics at FRIB

Presenter: Mr SCHATZ, Hendrik

Contribution ID: 47

Type: **not specified**

An update on the commissioning of SECAR

Presenter: Ms SMITH, Mackenzie

Contribution ID: 48

Type: **not specified**

Total absorption spectroscopy of an astromer in 70Cu

Presenter: Ms RONNING, Eleanor