

17th Rußbach School on Nuclear Astrophysics



Report of Contributions

Contribution ID: 1

Type: **not specified**

Introduction to stellar evolution

Primary author: PALMERINI, Sara (INFN and University of Perugia)

Presenter: PALMERINI, Sara (INFN and University of Perugia)

Contribution ID: 2

Type: **not specified**

AGB stars and s-process

Primary author: PALMERINI, Sara (INFN and University of Perugia)

Presenter: PALMERINI, Sara (INFN and University of Perugia)

Contribution ID: 3

Type: **not specified**

Simulating kilonova spectra with detailed atomic opacities

Primary author: LECK, Gerrit (TU Darmstadt and GSI)

Presenter: LECK, Gerrit (TU Darmstadt and GSI)

Contribution ID: 4

Type: **not specified**

Cross section measurement of the $^{92,94}\text{Mo}(\alpha, n)$ and $^{92}\text{Mo}(\alpha, p)$ reactions by γ -spectroscopy

Primary author: SZEGEDI, Tibor Norbert (University of Debrecen)

Presenter: SZEGEDI, Tibor Norbert (University of Debrecen)

Contribution ID: 5

Type: **not specified**

Nuclear Astrophysics in Underground Laboratories

Primary author: BOELTZIG, Axel (HZDR)

Presenter: BOELTZIG, Axel (HZDR)

Contribution ID: 6

Type: **not specified**

Measuring the half-life values for exotic rare-earth isotopes

Primary author: KOVÁCS, Sándor (University of Debrecen)

Presenter: KOVÁCS, Sándor (University of Debrecen)

Contribution ID: 7

Type: **not specified**

GAIA-ESO survey: origin and evolution of neutron capture elements

Presenter: MAGRINI, Laura (INAF Osservatorio Astrofisico di Arcetri)

Contribution ID: 8

Type: **not specified**

How many explosions does one need? - Quantifying supernovae in globular clusters from iron abundance spreads

Presenter: WIRTH, Henriette (Charles University of Prague)

Contribution ID: 9

Type: **not specified**

Nuclear reactions in normal versus inverse kinematics

Primary author: LIPOGLAVŠEK, Matej (Jožef Stefan Institute, Ljubljana, Slovenia)

Presenter: LIPOGLAVŠEK, Matej (Jožef Stefan Institute, Ljubljana, Slovenia)

Contribution ID: **10**

Type: **not specified**

Electron Screening in Nuclear Reactions

Primary author: ĐEORĐIĆ , Dijana (Jožef Stefan International Postgraduate School)

Presenter: ĐEORĐIĆ , Dijana (Jožef Stefan International Postgraduate School)

Contribution ID: **11**

Type: **not specified**

Dwarf galaxies' view of the heavy elements

Primary author: SKÚLADÓTTIR, Ása (University of Florence and INAF)

Presenter: SKÚLADÓTTIR, Ása (University of Florence and INAF)

Contribution ID: 12

Type: **not specified**

Can we decipher the composition of the core of a neutron star?

Presenter: MONDAL, Chiranjib (Laboratoire de Physique Corpusculaire, Caen, France)

Contribution ID: **13**

Type: **not specified**

The classical r-process revisited: what's left over — what's new?

Primary author: KRATZ, Karl-Ludwig (Johannes Gutenberg-Universität Mainz, Germany)

Presenter: KRATZ, Karl-Ludwig (Johannes Gutenberg-Universität Mainz, Germany)

Contribution ID: 14

Type: **not specified**

i process and the neutron-capture rate of Sb-126

Primary author: POGLIANO, Francesco (University of Oslo)

Presenter: POGLIANO, Francesco (University of Oslo)

Contribution ID: 15

Type: **not specified**

The physics of core collapse supernovae (part 1)

Please note, the slides of part 1 and part 2 are both in the same file.

Primary author: GUILLET, Jérôme (CEA Saclay, France)

Presenter: GUILLET, Jérôme (CEA Saclay, France)

Contribution ID: **16**

Type: **not specified**

Hunting the Descendants of the Very Massive First Stars

Primary author: AGUADO, David (Università degli Studi di Firenze, Italy)

Presenter: AGUADO, David (Università degli Studi di Firenze, Italy)

Contribution ID: 17

Type: **not specified**

The physics of core collapse supernovae (part 2)

Please note, the slides of part 1 and part 2 are both in the same file.

Primary author: GUILLET, Jérôme (CEA Saclay, France)

Presenter: GUILLET, Jérôme (CEA Saclay, France)

Contribution ID: **18**

Type: **not specified**

Short-lived nuclei in very massive stars

Primary author: MARTINET, Sébastien (Université de Genève, Switzerland)

Presenter: MARTINET, Sébastien (Université de Genève, Switzerland)

Contribution ID: **19**

Type: **not specified**

Resonant $^{12}\text{C}+^{12}\text{C}$ fusion at astrophysical energies

Primary author: TUMINO, Aurora (Università Kore di Enna and INFN-LNS)

Presenter: TUMINO, Aurora (Università Kore di Enna and INFN-LNS)

Contribution ID: 20

Type: **not specified**

12C fusion at deep sub-barrier energies with STELLA

Primary author: NIPPERT, Jean (Université de Strasbourg and IPHC, France)

Presenter: NIPPERT, Jean (Université de Strasbourg and IPHC, France)

Contribution ID: **21**

Type: **not specified**

Nuclear Astrophysics Schools partnering with ChETEC INFRA

Primary author: SCHMIDT, Konrad (HZDR, Germany)

Presenter: SCHMIDT, Konrad (HZDR, Germany)

Contribution ID: 22

Type: **not specified**

Recent results in nuclear astrophysics with indirect methods

Primary author: LA COGNATA, Marco Salvatore (IFIN-LNS)

Presenter: LA COGNATA, Marco Salvatore (IFIN-LNS)

Contribution ID: 23

Type: **not specified**

Study of the interplay between nuclear charge and energy loss in the FALSTAFF spectrometer

Primary author: ANGELINI, Filippo (Università degli Studi di Padova, Italy)

Presenter: ANGELINI, Filippo (Università degli Studi di Padova, Italy)

Contribution ID: 24

Type: **not specified**

In Memory of Shawn Bishop

Primary author: RUGEL, Georg (Helmholtz-Zentrum Dresden-Rossendorf, Germany)

Presenter: RUGEL, Georg (Helmholtz-Zentrum Dresden-Rossendorf, Germany)

Contribution ID: 25

Type: **not specified**

Nuclear astrophysics with Accelerator Mass Spectrometry (AMS)

Primary author: RUGEL, Georg (Helmholtz-Zentrum Dresden-Rossendorf, Germany)

Presenter: RUGEL, Georg (Helmholtz-Zentrum Dresden-Rossendorf, Germany)

Contribution ID: 26

Type: **not specified**

Combined search for live stellar Fe-60 and r-process synthesized Pu-244 in terrestrial archives

Primary author: KOLL, Dominik (Helmholtz-Zentrum Dresden-Rossendorf, Germany)

Presenter: KOLL, Dominik (Helmholtz-Zentrum Dresden-Rossendorf, Germany)

Contribution ID: 27

Type: **not specified**

Presolar grains - a general introduction

Primary author: KODOLÁNYI, János (Max Planck Institute for Chemistry, Germany)

Presenter: KODOLÁNYI, János (Max Planck Institute for Chemistry, Germany)

Contribution ID: 28

Type: **not specified**

Progress towards a single atom microscope for nuclear astrophysics

Primary author: WHITE, Erin (Michigan State University, USA)

Presenter: WHITE, Erin (Michigan State University, USA)

Contribution ID: 29

Type: **not specified**

A textbook case in experimental nuclear astrophysics: The $^{18}\text{F}(\text{a},\text{p})^{15}\text{O}$ reaction

Primary author: DE OLIVEIRA SANTOS, François (GANIL, France)

Presenter: DE OLIVEIRA SANTOS, François (GANIL, France)

Contribution ID: 30

Type: **not specified**

Comprehensive test of the brink-axel hypothesis in the energy region of the pygmy dipole resonance

Primary author: MARKOVA, Maria (Universitetet i Oslo, Norway)

Presenter: MARKOVA, Maria (Universitetet i Oslo, Norway)

Contribution ID: **31**

Type: **not specified**

Reassessment of the radiative γ -decay branch of the Hoyle state

Primary author: PAULSEN, Wanja (Universitetet i Oslo, Norway)

Presenter: PAULSEN, Wanja (Universitetet i Oslo, Norway)

Contribution ID: 32

Type: **not specified**

The initial mass function of stars

Primary author: KROUPA, Pavel (Rheinische Friedrich-Wilhelms-Universität Bonn, Germany, and Univerzita Karlova, Czech Republic)

Presenter: KROUPA, Pavel (Rheinische Friedrich-Wilhelms-Universität Bonn, Germany, and Univerzita Karlova, Czech Republic)

Contribution ID: 33

Type: **not specified**

Abundance analysis of the Cetus II dwarf galaxy

Primary author: WEBBER, Kaitlin (Texas A&M University, USA)

Presenter: WEBBER, Kaitlin (Texas A&M University, USA)

Contribution ID: 34

Type: **not specified**

The formation of super-massive black holes and on the (probable?) very rapid initial metal & r-process enrichment

Primary author: KROUPA, Pavel (Rheinische Friedrich-Wilhelms-Universität Bonn, Germany, and Univerzita Karlova, Czech Republic)

Presenter: KROUPA, Pavel (Rheinische Friedrich-Wilhelms-Universität Bonn, Germany, and Univerzita Karlova, Czech Republic)

Contribution ID: 35

Type: **not specified**

Cosmic Gamma-Rays in the Multi-Messenger Era

Primary author: DIEHL, Roland (Max Planck Institute for Extraterrestrial Physics, Germany)

Presenter: DIEHL, Roland (Max Planck Institute for Extraterrestrial Physics, Germany)

Contribution ID: 36

Type: **not specified**

The nuclear matter density functional under the nucleonic hypothesis

Primary author: DINH THI, Hoa (Laboratoire de Physique Corpusculaire, France)

Presenter: DINH THI, Hoa (Laboratoire de Physique Corpusculaire, France)

Contribution ID: 37

Type: **not specified**

From the classical r-process to the multimessenger era

Primary author: KRATZ, Karl-Ludwig (Johannes Gutenberg-Universität Mainz, Germany)

Presenter: KRATZ, Karl-Ludwig (Johannes Gutenberg-Universität Mainz, Germany)

Contribution ID: **38**

Type: **not specified**

Evolution of neutron capture elements in dwarf galaxies

Primary author: MOLERO, Marta (Università degli Studi di Trieste, Italy)

Presenter: MOLERO, Marta (Università degli Studi di Trieste, Italy)

Contribution ID: 39

Type: **not specified**

Direct measurement of $^{56}\text{Ni}(\alpha, p)^{59}\text{Cu}$ to improve X-ray burst models

Primary author: WAGNER, Louis (TRIUMF, Canada)

Presenter: WAGNER, Louis (TRIUMF, Canada)

Contribution ID: 40

Type: **not specified**

The $^{15}\text{O}(\alpha,\gamma)^{19}\text{Ne}$ reaction in type I X-ray bursts

Primary author: WHEELER, Tyler (Michigan State University, USA)

Presenter: WHEELER, Tyler (Michigan State University, USA)

Contribution ID: **41**

Type: **not specified**

Closing Remarks

Primary author: SCHMIDT, Konrad (Helmholtz-Zentrum Dresden-Rossendorf, Germany)

Presenter: SCHMIDT, Konrad (Helmholtz-Zentrum Dresden-Rossendorf, Germany)