

18th Russbach School on Nuclear Astrophysics



Report of Contributions

Contribution ID: 1

Type: **not specified**

Closing Remarks

Presenter: SCHMIDT, Konrad (HZDR)

Contribution ID: 2

Type: **not specified**

Introduction to observational nuclear astrophysics

Presenter: KORN, Andreas (Uppsala University, Sweden)

Contribution ID: 3

Type: **not specified**

Introduction to stellar modeling

Presenter: Ms DELL'AGLI, Flavia

Contribution ID: 4

Type: **not specified**

Introduction to nuclear physics in astrophysics

Presenter: Ms TUMINO, Aurora

Contribution ID: 5

Type: **not specified**

The PANDORA project: a setup for b-decay studies in nuclei of astrophysical interest

Presenter: Mr SANTONOCITO, Domenico

Contribution ID: 6

Type: **not specified**

Plasma-Induced Variation of bound state b-decay rates with PANDORA

Presenter: MISHRA, Bharat (INFN - LNS)

Contribution ID: 7

Type: **not specified**

Structure of n-rich nuclei and its implication on the synthesis of heavy elements

Presenter: Ms SIGMUND, Margareta

Contribution ID: 8

Type: **not specified**

Introduction to presolar grains

Presenter: Mr TRAPPITSCH, Reto

Contribution ID: 9

Type: **not specified**

Upgrading the n-capture and decay rates of Monash nucleosynthesis code

Presenter: Mr SZANYI, Balazs

Contribution ID: **10**

Type: **not specified**

Determining the structure of exotic atomic nuclei for astrophysical explosions

Presenter: Ms SINGH, Nisha

Contribution ID: 11

Type: **not specified**

Introduction to neutron capture processes/Nucleosynthesis in the rapid neutron capture process

Presenter: Mr MARTINEZ-PINEDO, Gabriel

Contribution ID: 12

Type: **not specified**

The slow neutron capture process

Presenter: Mr CRISTALLO, Sergio

Contribution ID: 13

Type: **not specified**

Dust formation around evolved stars

Presenter: Ms DELL'AGLI, Flavia

Contribution ID: 14

Type: **not specified**

Electron screening in palladium

Presenter: Mr LIPOGLAVSEK, Matej

Contribution ID: 15

Type: **not specified**

Cross-section measurement for $^{114}\text{Cd}(p,g)^{115m}\text{In}$ reaction relevant to the p-process

Presenter: Mrs VIBHUTIBEN, Vashi

Contribution ID: **16**

Type: **not specified**

The intermediate n-capture process, observational constraints and modeling

Presenter: Mr PIGNATARI, Marco

Contribution ID: 17

Type: **not specified**

Nd: Will it make a difference in i-process abundances?

Presenter: Ms BERG, Hannah C.

Contribution ID: **18**

Type: **not specified**

Constraining the g process: $^{82}\text{Kr}(\text{p,g})^{83}\text{Rb}$ cross section studies in inverse kinematics

Presenter: Ms TSANTIRI, Artemis

Contribution ID: **19**

Type: **not specified**

Unveiling the nucleosynthetic signature of the first stars

Presenter: Ms VANNI, Irene

Contribution ID: **20**

Type: **not specified**

Spectroscopy made easy

Presenter: Mr PUSCHNIG, Johannes

Contribution ID: **21**

Type: **not specified**

Constraining weak interactions in nuclear astrophysics

Presenter: Mr ZEGERS, Remco

Contribution ID: 22

Type: **not specified**

Equations of state of dense matter in the light of present and future nuclear physics and astrophysics constraints

Presenter: Ms RADUTA, Adriana R.

Contribution ID: 23

Type: **not specified**

Bayesian inference of dense matter EoS built upon covariant density functionals

Presenter: Mr BEZNOGOV, Mikhail

Contribution ID: 24

Type: **not specified**

Introduction to Galactic Chemical Evolution

Presenter: Ms HILL, Vanessa

Contribution ID: 25

Type: **not specified**

Modeling the Galactic Chemical Evolution of the Milky Way with OMEGA+

Presenter: Ms HEGEDUS, Viola

Contribution ID: 26

Type: **not specified**

Primary neutron production in rapidly rotating Population III stellar model

Presenter: Ms TSIATSIYOU, Sophie

Contribution ID: 27

Type: **not specified**

Stellar observations of heavy elements

Presenter: HANSEN, Camilla J.

Contribution ID: **28**

Type: **not specified**

Radial velocity monitoring of s-process binaries

Presenter: Mr DIMOFF, Alexander

Contribution ID: 29

Type: **not specified**

^{26}Al and ^{60}Fe in the Large Magellanic Cloud

Presenter: Ms VASINI, Adrianna

Contribution ID: **30**

Type: **not specified**

Indirect methods in nuclear astrophysics

Presenter: Ms TUMINO, Aurora

Contribution ID: **31**

Type: **not specified**

Nuclear astrophysics in underground laboratories

Presenter: DEPALO, ROSANNA

Contribution ID: **32**

Type: **not specified**

Recent measurements from Felsenkeller shallow-underground laboratory

Presenter: Ms MASHA, Eliana

Contribution ID: 33

Type: **not specified**

Nucleosynthetic anomalies in the Solar system

Presenter: Mr TRAPPITSCH, Reto

Contribution ID: 34

Type: **not specified**

Study of the $^{19}\text{F}(\text{p},\text{a})^{16}\text{O}$ cross section in the energy range of astrophysical interest

Presenter: Ms SU, Xuedou

Contribution ID: 35

Type: **not specified**

Inferring properties of a mysterious shallow heat source in accreting n-star crusts

Presenter: Mr JAIN, Rahul

Contribution ID: **36**

Type: **not specified**

Neutron star mountains and gravitational waves

Presenter: Mr MORALES, Jorge

Contribution ID: 37

Type: **not specified**

Astrophysical key fusion reactions of carbon and oxygen with the high repcision STELLar LAboratory (STELLA)

Presenter: Ms BONHOMME, Aurélie

Contribution ID: **38**

Type: **not specified**

Impact of a new $^{12}\text{C}+^{12}\text{C}$ reaction rate on stellar evolution

Presenter: Mr DUMONT, Thibaut

Contribution ID: 39

Type: **not specified**

Galactic chemical evolution: spotlight on neutron capture elements

Presenter: CESCUTTI, Gabriele (I.N.A.F. Osservatorio Astronomico di Trieste)

Contribution ID: 40

Type: **not specified**

Early chemical evolution of dwarf galaxies and the Milky Way Halo

Presenter: Mr LUCCHESI, Romain

Contribution ID: 41

Type: **not specified**

Galactic Chemical Evolution with radioactive isotopes

Presenter: Dr WEHMEYER, Benjamin (Konkoly Obs. & Univ. of Hertfordshire)

Contribution ID: 42

Type: **not specified**

The p-process nucleosynthesis in core-collapse supernovae

Presenter: Mr ROBERTI, Lorenzo

Contribution ID: 43

Type: **not specified**

Total & partial cross-section studies of $^{87}\text{Rb}(p,g)^{88}\text{Sr}$

Presenter: Ms WILDEN, Svenja

Contribution ID: 44

Type: **not specified**

Determine $^{170,172}\text{Yb}(\alpha, n)^{173,175}\text{Hf}$ cross sections in a stacked target experiment

Presenter: Mr MUELLER, Martin

Contribution ID: 45

Type: **not specified**

Analysis of the triple a decay of the 0^+_{2} state in ^{12}C

Presenter: Mr WERNER, David

Contribution ID: 46

Type: **not specified**

Cosmic dust on earth

Presenter: Ms FEIGE, Jenny

Contribution ID: 47

Type: **not specified**

Probing the Equation of State (EoS) of dense matter with neutron stars

Presenter: Mr FANTINA, Anthea

Contribution ID: 48

Type: **not specified**

Colliding and exploding stars: How the not so heavy elements are created

Presenter: Mr MONTES, Fernando

Contribution ID: 49

Type: **not specified**

In-beam g-ray spectroscopy for cross_section studies relevant for the p-process

Presenter: HEIM, Felix (University of Cologne)

Contribution ID: 50

Type: **not specified**

Solving the Li problem

Presenter: KORN, Andreas (Uppsala University, Sweden)