

# **Indirect Methods in Nuclear Astrophysics**



## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

## **Introduction to Indirect Mehods in NA**

*Monday 5 November 2018 09:15 (40 minutes)*

**Presenter:** TRACHE, Livius (“Horia Hulubei” National Institute for Physics and Nuclear)

Contribution ID: 2

Type: **not specified**

# Primordial Nucleosynthesis after Planck

*Monday 5 November 2018 09:55 (55 minutes)*

**Presenter:** Dr FIELDS, Brian (University of Illinois)

Contribution ID: 3

Type: **not specified**

## Primordial Nucleosynthesis part 2

*Monday 5 November 2018 11:20 (55 minutes)*

**Presenter:** Dr FIELDS, Brian (University of Illinois)

Contribution ID: 4

Type: **not specified**

## Discussions

*Monday 5 November 2018 12:15 (15 minutes)*

Contribution ID: 5

Type: **not specified**

## **Some nuclear astrophysics studies with CDCC**

*Monday 5 November 2018 13:30 (55 minutes)*

**Presenter:** Dr OGATA, Kazuyuki (Research Center for Nuclear Physics, Osaka University)

Contribution ID: 6

Type: **not specified**

## **Self-consistent determination of nuclear reaction path and clustering**

*Monday 5 November 2018 15:00 (55 minutes)*

**Presenter:** Dr NAKATSUKASA, Takashi (Center for Computational Sciences, University of Tsukuba)

Contribution ID: 7

Type: **not specified**

## **Indirect method application for RI-beam experiments**

*Monday 5 November 2018 15:55 (55 minutes)*

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



Contribution ID: 8

Type: **not specified**

## Learning from cosmic gamma ray observations

*Tuesday 6 November 2018 09:00 (55 minutes)*

**Presenter:** Dr DIEHL, Roland (Max Planck Institut fuer extraterrestrische Physik)

Contribution ID: 9

Type: **not specified**

## **Nuclear Astrophysics with Lasers**

*Tuesday 6 November 2018 09:55 (55 minutes)*

**Presenter:** Dr BONASERA, Aldo (Texas A&M University)

Contribution ID: **10**

Type: **not specified**

## **Photons in the lab and in stars: a tedious route from experimental data to stellar reaction rates**

*Tuesday 6 November 2018 11:20 (55 minutes)*

**Presenter:** Dr MOHR, Peter (Institute for Nuclear Research Atomki)

Contribution ID: **11**

Type: **not specified**

## Discussions

*Tuesday 6 November 2018 12:15 (15 minutes)*

Contribution ID: 12

Type: **not specified**

## **Constraining neutron-capture reactions for the astrophysical r-process**

*Tuesday 6 November 2018 13:30 (55 minutes)*

**Presenter:** Dr SPYROU, Artemis (Michigan State University)

Contribution ID: 13

Type: **not specified**

## **The SPES RIB facility at LNL and the nuclear astrophysics scientific program**

*Tuesday 6 November 2018 15:00 (55 minutes)*

**Presenter:** Dr DE ANGELIS, Giacomo (LNL)

Contribution ID: **14**

Type: **not specified**

## **ANC in NPI Rez**

*Tuesday 6 November 2018 15:55 (55 minutes)*

**Presenter:** Dr MRAZEK, Jaromir (NPI CAS)

Contribution ID: 15

Type: **not specified**

## **Nuclear uncertainties in stellar explosions**

**Presenter:** Dr JOSE, Jordi (UPC Barcelona)



Contribution ID: **16**

Type: **not specified**

## **$^{60}\text{Fe}$ and Near-Earth Supernovae**

*Wednesday 7 November 2018 09:55 (55 minutes)*

**Presenter:** Dr FIELDS, Brian (University of Illinois)

Contribution ID: 17

Type: **not specified**

## **Discovery of Supernova-Produced $^{60}\text{Fe}$ in Microfossils on Earth**

*Wednesday 7 November 2018 11:20 (55 minutes)*

**Presenter:** Dr BISHOP, Shawn (Technische Universität München)

Contribution ID: **18**

Type: **not specified**

## Discussions

*Wednesday 7 November 2018 12:15 (15 minutes)*

Contribution ID: **19**

Type: **not specified**

## **Breakup reactions of neutron-rich nuclei for application to stellar reactions**

*Wednesday 7 November 2018 13:30 (55 minutes)*

**Presenter:** Dr NAKAMURA, Takashi (Tokyo Institute of Technology)

Contribution ID: 20

Type: **not specified**

## **Ab initio calculations of nuclear resonances**

*Wednesday 7 November 2018 15:00 (55 minutes)*

**Presenter:** Dr XU, Furong (Peking University)

Contribution ID: 21

Type: **not specified**

# **Halo & shape decoupling effect in deformed nuclei**

*Wednesday 7 November 2018 15:55 (55 minutes)*

**Presenter:** Dr ZHOU, Shan-Gui (Institute of Theoretical Physics, Chinese Academy of Sciences)

Contribution ID: 22

Type: **not specified**

## **Resonance spectroscopy as INMA**

*Wednesday 7 November 2018 16:50 (30 minutes)*

**Presenter:** SPIRIDON, Alexandra (“Horia Hulubei” National Institute for Physics and Nuclear)

Contribution ID: 23

Type: **not specified**

## **Break-up as indirect method in NA**

*Wednesday 7 November 2018 17:20 (30 minutes)*

**Presenter:** Dr CHILUG, Alexandra (IFIN-HH)



Contribution ID: 24

Type: **not specified**

## **Stellar weak interaction rates for exotic proton-rich nuclei in the beyond-mean-field approach**

*Thursday 8 November 2018 09:00 (55 minutes)*

**Presenter:** Dr PETROVICI, Alexandrina (IFIN-HH)

Contribution ID: 25

Type: **not specified**

## Clustering in Low Density Nuclear Matter

*Thursday 8 November 2018 09:55 (55 minutes)*

**Presenter:** Dr NATOWITZ, Joseph (Texas A&M University)

Contribution ID: 26

Type: **not specified**

## Coulomb dissociation of $^{17}\text{Ne}$

*Thursday 8 November 2018 11:20 (55 minutes)*

**Presenter:** Dr CHULKOV, Leonid (NRC Kurchatov Institute)

Contribution ID: 27

Type: **not specified**

## Discussions

*Thursday 8 November 2018 12:15 (15 minutes)*

Contribution ID: 28

Type: **not specified**

## Foundations of the Trojan-Horse Method

*Thursday 8 November 2018 13:30 (55 minutes)*

**Presenter:** Dr TYPEL, Stefan (IKP, Technische Universität Darmstadt)

Contribution ID: 29

Type: **not specified**

## **Resonant carbon burning to reshape star evolution**

*Thursday 8 November 2018 15:00 (55 minutes)*

**Presenter:** Dr TUMINO, Aurora (Università "Kore" Enna & INFN-LNS)

Contribution ID: 30

Type: **not specified**

## **THM measurements involving light elements: a focus on the cosmologically relevant ${}^7\text{Be}(n,\alpha){}^4\text{He}$ reaction**

*Friday 9 November 2018 09:00 (55 minutes)*

**Presenter:** Dr LAMIA, Livio (INL)

Contribution ID: 31

Type: **not specified**

# **Key Stellar and Nuclear Uncertainties in Stellar Evolution Modelling**

*Friday 9 November 2018 09:55 (55 minutes)*

**Presenter:** Dr HIRSCHI, Raphael (Keele University)



Contribution ID: 32

Type: **not specified**

## **Indirect measurement of reduced alpha-width of subthreshold resonance**

**Presenter:** Dr GUO, Bing (China Institute of Atomic Energy)

Contribution ID: 33

Type: **not specified**

## Discussions

*Friday 9 November 2018 11:20 (1 hour)*

Contribution ID: **34**

Type: **not specified**

## Discussions

*Monday 5 November 2018 16:50 (1 hour)*

Contribution ID: 35

Type: **not specified**

## Discussions

*Tuesday 6 November 2018 16:50 (1 hour)*

Contribution ID: **36**

Type: **not specified**

## Discussions

*Thursday 8 November 2018 15:55 (1 hour)*