

**Session Program**

**12-13 Nov 2024**

**Agenda for the 77th Meeting of the INTC**

***OPEN Session***

CERN, 61/1-009 - Room C

# Tuesday 12 November

09:00

## OPEN Session: REMOTE (All talks via Zoom, only INTC Members in the room)

Session | Location: CERN, 61/1-009 - Room C

09:00–09:05

### Introduction

#### Speaker

Marek Pfutzner

09:05–09:15

### ISOLDE Physics Report

#### Speaker

Hanne Heylen

09:15–09:25

### n\_TOF Physics Report

#### Speaker

Paolo Maria Milazzo

09:25–09:37

### Nuclear moments of excited states in neutron-rich Sn isotopes studied by on-line PAC

#### Speaker

Heinz Haas

09:45–09:57

### The neutron capture cross section of $^{124}\text{Sn}$ and its impact on neutrinoless double $\beta$ decay searches

#### Speaker

Marian Alexandru Boromiza

10:05–10:17

### Measurement of (n,cp) reactions in EAR1 using an enhanced experimental setup

#### Speaker

Styliani Goula

10:25–10:37

### Fast neutrons inelastic cross section on $^{28}\text{Si}$ for space applications and fundamental research

#### Speaker

Cristina Petrone

10:45–11:00

### Break

11:00–11:12

### Weak interaction studies via beta-delayed proton emission

#### Speaker

Bertram Blank

11:20–11:32

### Precise mass measurements of light and heavy neutron-rich noble-gas isotopes for nuclear structure studies

**Speaker**

Daniel Lange

11:40–11:52

**Investigation of the nucleon distribution on the surface of radioactive xenon nuclei using antiprotons****Speakers**

Frank Wienholtz, Lukas Nies

12:00–12:12

**Probing the magicity and shell evolution in the vicinity of  $N = 50$  with high-resolution laser spectroscopy of  $^{81,82}\text{Zn}$  isotopes : Addendum: Laser-assisted decay spectroscopy of  $^{75\text{m}},^{79\text{m}}\text{Zn}$** **Speaker**

Prof. Thomas Elias Cocolios

12:20–12:32

**Comparison of bulk and interfacial diffusion of  $^8\text{Li}^{+}$  in solid-state battery materials with  $\beta$ -NMR spectroscopy****Speaker**

Amy Sparks

12:40–13:40

**Lunch**

13:40–13:52

**Investigating the origins of the kink in charge radii at  $N=28$** **Speaker**

Magdalena Kowalska

14:00–14:12

**Shell evolution in Ge isotopes with  $N \geq 50$  investigated via fast-timing methods****Speaker**

Prof. Luis M Fraile

14:20–14:32

**Mass measurements of neutron-rich Ag and In isotopes for r-process nucleosynthesis studies****Speaker**

Paul Florian Giesel

14:40–14:52

**Collinear resonance ionization of neutron-deficient indium: closing up on  $N = 50$** **Speaker**

Jessica Warbinek

15:00–15:12

 **$\beta$  decay studies of neutron-deficient gallium isotopes with Lucrecia****Speaker**

Victor Guadilla Gomez

15:20–15:35

**Break**

15:35–15:47

**Laser spectroscopy of neutron-rich Ni with PI-LIST**

**Speakers**

Jordan Ray Reilly, Michail Athanasakis-Kaklamanakis

15:55–16:07

**Exploring octupole collectivity in neutron-rich  $A=217-226$  astatine and radon nuclei, using decay-tagged in-source laser spectroscopy****Speakers**

Andrei Andreyev, James Cubiss, Katerina Chrysalidis

16:15–16:27

**Branching Ratios from a Triaxial Superdeformed “ $\beta$ -band” in  $^{162}\text{Yb}$** **Speaker**

Robert Arthur Bark

16:35–16:47

**First online laser spectroscopy study of promethium isotopes****Speakers**

James Cubiss, Katerina Chrysalidis

16:55–17:10

**Break**

17:10–17:22

**Laser spectroscopy of neutron-deficient thulium isotopes****Speaker**

Bradley Cheal

17:30–17:42

**Measurement of the neutron capture cross section of  $^{87}\text{Sr}$** **Speakers**

Emilio Andrea Maugeri, Frank Gunsing

17:50–18:02

**New high-resolution measurement of  $^{56}\text{Fe}(\text{n}, \gamma)$  at n\_TOF-EAR1 for Nuclear Astrophysics and Nuclear Technology****Speakers**

Adria Casanovas Hoste, Paolo Maria Milazzo

18:10–18:22

**Measurement of the inelastic scattering cross section of neutrons on  $^{19}\text{F}$  by  $\gamma$ -ray spectroscopy****Speakers**

Giuseppe Lorusso, Michael Bacak, Tobias James Wright

18:29–18:30

**End of Open Session**

18:30