

Session Program

9-14 Jun 2024



PLATAN 2024 - Merger of the Poznan Meeting on Lasers and Trapping Devices in Atomic Nuclei Research and the International Conference on Laser Probing

Plenary

Agora, University of Jyväskylä, Finland, A102
Agora, Mattilanniemi 2, 40100 Jyväskylä, Finland

Monday 10 June

09:00

Plenary: 1

Session |

Location: Agora, University of Jyväskylä, Finland, A102, Agora, Mattilanniemi 2, 40100 Jyväskylä, Finland |

Convener: Paul Campbell

09:00–09:30

Laser Spectroscopy of $^{208}\text{Bi}^{82+}$ at the Experimental Storage Ring ESR

Speaker

Wilfried Nörtershäuser

09:30–09:50

Two-body currents in magnetic dipole moments based on nuclear DFT

09:50–10:10

High-precision laser spectroscopy of helium-like carbon

Speaker

Phillip Imgram

10:10–10:30

Nuclear structure of Pd isotopes via optical spectroscopy

Speaker

Sarina Geldhof

10:30

11:00

Plenary: 2

Session |

Location: Agora, University of Jyväskylä, Finland, A102, Agora, Mattilanniemi 2, 40100 Jyväskylä, Finland |

Convener: Michael Block

11:00–11:30

Latest results from LEBIT and upgrades to the stopped beam facilities at FRIB

Speaker

Ryan Ringle

11:30–11:50

Shape Coexistence Near Doubly-Magic ^{78}Ni

Speaker

Lukas Nies

11:50–12:10

Recent mass measurements of neutron-rich rare-earth nuclides with the JYFLTRAP double Penning Trap at IGISOL for the astrophysical r-process

Speaker

Arthur Jaries

12:10–12:30

Pushing the Limits of Ab-Initio Theory through Precision Mass Measurements of Neutron Rich Potassium at TITAN

Speaker

Coulter Walls

12:30

14:00

Plenary: 3**Session** |**Location:** Agora, University of Jyväskylä, Finland, A102, Agora, Mattilanniemi 2, 40100 Jyväskylä, Finland |**Convener:** Tommi Eronen

14:00–14:30

Progress towards atomic parity violation measurements in francium**Speaker**

Prof. Gerald Gwinner

14:30–14:50

Parity-Violating Nuclear Effects From Single Molecules In A Penning Trap**Speaker**

Dr Jonas Karthein

14:50–15:10

Measurement of Analog-Antianalog Isospin Mixing in ^{47}K Beta Decay**Speaker**

Dr Brian Kootte

15:10–15:30

Current status of MORA at IGISOL**Speaker**

Luis Miguel Motilla Martinez

15:30

16:00

Plenary: 4**Session** |**Location:** Agora, University of Jyväskylä, Finland, A102, Agora, Mattilanniemi 2, 40100 Jyväskylä, Finland |**Convener:** Shuichi HASEGAWA

16:00–16:30

Present status and future prospects of SCRIT electron scattering facility**Speaker**

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16:30–16:50

Noble Gas measurements of nuclear fuel particles from Chernobyl**Speaker**

Laura Leifermann

16:50–17:10

Development of mid-infrared cavity ring-down spectrometers for radiocarbon/tritium analysis in biomedical tracer and environmental applications**Speaker**

Prof. Hideki Tomita

17:10–17:30

Elemental ratios of spent nuclear fuel by resonance ionization mass spectrometry**Speaker**

Manuel Raiwa

17:30

Tuesday 11 June

09:00

Plenary: 5

Session |

Location: Agora, University of Jyväskylä, Finland, A102, Agora, Mattilanniemi 2, 40100 Jyväskylä, Finland |

Convener: Iain Moore

09:00–09:30

Electronic Bridge schemes in ^{229}Th doped LiCAF

Speaker

Tobias Kirschbaum

09:30–09:50

Laser ionization of thorium via Rydberg states in hypersonic gas jets

Speaker

Arno Claessens

09:50–10:10

Collinear laser spectroscopy of U isotopes at IGISOL

Speaker

Andrea Raggio

10:10–10:30

Nuclear octupole shapes in Actinides with Fayans functionals

Speaker

Gauthier Danneaux

10:30

11:00

Plenary: 6

Session |

Location: Agora, University of Jyväskylä, Finland, A102, Agora, Mattilanniemi 2, 40100 Jyväskylä, Finland |

Convener: Ari Jokinen

11:00–11:30

Progress at the N=126 factory at ANL

Speaker

Guy Savard

11:30–11:50

In-gas-cell laser ionization spectroscopy of heavy refractory nuclei produced at KISS

Speaker

Yoshikazu HIRAYAMA

11:50–12:10

Laser-polarised unstable nuclei at ISOLDE

Speaker

Magdalena Kowalska

12:10–12:30

Spectroscopic opportunities for rare isotopes with the MIRACLS technique and laser cooling

Speaker

Dr Simon Lechner

12:30

14:00

Plenary: 7**Session** |**Location:** Agora, University of Jyväskylä, Finland, A102, Agora, Mattilanniemi 2, 40100 Jyväskylä, Finland |**Convener:** Prof. Daniel Rodríguez

14:00–14:30

Laser spectroscopy of the heaviest elements**Speaker**

Sebastian Raeder

14:30–14:50

Laser Spectroscopy of Californium-253,254**Speaker**

Sebastian Berndt

14:50–15:10

Laser spectroscopy of fermium-255 at the RISIKO mass separator facility**Speaker**

Mr Matou Stemmler

15:10–15:30

Fingerprinting heavy elements via Laser Resonance Chromatography: First demonstrations on Lu³⁺**Speaker**

Aayush Arya

15:30

16:00

Plenary: 8**Session** |**Location:** Agora, University of Jyväskylä, Finland, A102, Agora, Mattilanniemi 2, 40100 Jyväskylä, Finland |**Convener:** Magdalena Kowalska

16:00–16:30

Plans for laser spectroscopy at the proton drip line**Speaker**

Kara Marie Lynch

16:30–16:50

Implantation of pure Fe-55 into microcalorimeters for activity standardization measurements**Speaker**

Thorben Niemeyer

16:50–17:10

Measurement of the shift in the electron affinities of tin isotopes at DESIREE**Speaker**

David Leimbach

17:30

Wednesday 12 June

09:00

Plenary: 9

Session |

Location: Agora, University of Jyväskylä, Finland, A102, Agora, Mattilanniemi 2, 40100 Jyväskylä, Finland |

Convener: Prof. Thomas Elias Cocolios

09:00–09:30

Laser Probing of Rare Isotopes: Krypton, Radium, and Beyond

Speaker

Peter Mueller

09:30–09:50

Collinear Laser Spectroscopy on Neutron-Deficient Al Isotopes at RISE/ BECOLA

Speaker

Brooke Rickey

09:50–10:10

Collinear laser spectroscopy in neutron-rich Ru

Speaker

Kristian Koenig

10:10–10:30

On the use of charge distribution in nuclei to constrain effective interactions

Speaker

Karim BENNACEUR

10:30

11:00

Plenary: 10

Session |

Location: Agora, University of Jyväskylä, Finland, A102, Agora, Mattilanniemi 2, 40100 Jyväskylä, Finland |

Convener: Jens Lassen

11:00–11:30

Radioactive molecule spectroscopy towards searches for BSM physics

Speaker

Michail Athanasakis-Kaklamanakis

11:30–11:50

High accuracy predictions of properties of heavy atoms and molecules and evaluation of uncertainties.

Speaker

Anastasia Borschevsky

11:50–12:10

Radioactive molecular ion beams at CERN-ISOLDE

Speaker

Mia Au

12:10–12:30

Ultra-trace analysis of radionuclides with laser ionization mass spectrometry

Speaker

Paul Hanemann

12:30

Thursday 13 June

09:00

Plenary: 11

Session |

Location: Agora, University of Jyväskylä, Finland, A102, Agora, Mattilanniemi 2, 40100 Jyväskylä, Finland |

Convener: Piet Van Duppen

09:00–09:30

The current status of S3LEB at GANIL

Speaker

Dr Nathalie LECESNE

09:30–09:50

Mass measurements of exotic nuclides in the vicinity of ^{100}Sn and their implications to nuclear structure

Speaker

Gabriella Kripkó-Koncz

09:50–10:10

MR-ToF mass measurements of the isomeric states in ^{94}Ag produced with a hot cavity at IGISOL

Speaker

Ville Virtanen

10:10–10:30

Optical spectroscopy of the silver isotopic chain

Speaker

Sonja Kujanpää

10:30

11:00

Plenary: 12

Session |

Location: Agora, University of Jyväskylä, Finland, A102, Agora, Mattilanniemi 2, 40100 Jyväskylä, Finland |

Convener: Anu Kankainen

11:00–11:30

In search of increasingly exotic nuclides at TITAN

Speaker

Anna Kwiatkowski

11:30–11:50

Recent mass measurements at ISOLTRAP

Speaker

Daniel Lange

11:50–12:10

High-precision Penning-trap mass measurements of heavy and superheavy elements with SHIPTRAP

Speaker

Dr Manuel J. Gutiérrez

12:10–12:30

Penning-trap eigenfrequency measurement using single laser-cooled ions

Speaker

Dr Joaquín Berrocal

12:30

14:00

Plenary: 13**Session** |**Location:** Agora, University of Jyväskylä, Finland, A102, Agora, Mattilanniemi 2, 40100 Jyväskylä, Finland |**Convener:** Klaus Wendt

14:00–14:30

LEMING: Towards measuring the gravitational acceleration g of Muonium**Speaker**

Paul Wegmann

14:30–14:50

Absolute charge radii measurements of potassium and chlorine**Speaker**

Michael Heines

14:50–15:10

Ultra-cold Cs trap for magnetic octupole moment studies and coherent gamma generation**Speaker**

Wirunchana Rattanasakuldilok

15:10

15:40

Plenary: Plenary 14**Session** |**Location:** Agora, University of Jyväskylä, Finland, A102, Agora, Mattilanniemi 2, 40100 Jyväskylä, Finland |**Convener:** Klaus Wendt

15:40–16:00

Towards the study of the Bohr-Weisskopf effect in short lived nuclei using laser-rf double-resonance spectroscopy.**Speaker**

Mark Bissell

16:00–16:20

Probing the nuclear magnetic octupole moment of trapped Sr ions**Speaker**

Pierre Lassegues

16:20

Friday 14 June

09:00

Plenary: 15

Session |

Location: Agora, University of Jyväskylä, Finland, A102, Agora, Mattilanniemi 2, 40100 Jyväskylä, Finland |

Convener: Mikael Reponen

09:00–09:30

CERN-ISOLDE's new high-resolution laser ion source PI-LIST: Results, characteristics, and developments

Speaker

Reinhard Heinke

09:30–09:50

In-source Laser Spectroscopy Studies of Neutron-rich Thallium at IDS/ RILIS-ISOLDE

Speaker

Zixuan Yue

09:50–10:10

On-line resonance ionization laser ion source development at the RAON ISOL facility

Speaker

Dr Sung Jong Park

10:10–10:30

Double-beta decay Q-value measurements with the JYFLTRAP Penning trap

Speaker

Jouni Ruotsalainen

10:30

11:00

Plenary: 16

Session |

Location: Agora, University of Jyväskylä, Finland, A102, Agora, Mattilanniemi 2, 40100 Jyväskylä, Finland |

Convener: Anna Kwiatkowski

11:00–11:20

High precision decay energy measurements of low Q-value beta decays with JYFLTRAP at IGISOL

Speaker

Dr zhuang ge

11:20–11:40

Update on TRIUMF's resonant ionization laser ion source(s) and the nuclear spin polarized beams program

Speaker

Jens Lassen

11:40–12:00

Neither last nor least, just LIST - derivatives of a versatile laser ion source and their applications

12:00

Speaker
Klaus Wendt