Session Program

10–14 Jun 2024

PSAS'2024 - International Conference on Precision Physics of Simple Atomic Systems

Poster Session 1

ETH Zurich- Hönggerberg Campus

Monday 10 June

18:00

Poster Session 1

Session | **Location:** ETH Zurich- Hönggerberg Campus

18:00–20:00

Low Repetition Rate Optical Frequency Combs for Precision Spectroscopy

Speaker
Muhammad Thariq

18:00–20:00

Towards laser cooling of negative molecular ions

Speaker
Matthias Germann

18:00–20:00

High precision calculation of structural properties of three-body molecular ions

Speaker
Santanu Mondal

18:00–20:00

Calculating the many-potential vacuum polarization density of the Dirac equation in the finite-basis approximation

Speaker
Dr Maen Salman

18:00–20:00

Calculations of the one-loop self-energy correction in one-electron systems with a numerical Green function

Speaker
Hugo Demattos Nogueira

18:00–20:00

Regularized relativistic corrections for polyelectronic and polyatomic systems with explicitly correlated Gaussians

Speaker
Balázs Rácsai

18:00–20:00

Pair corrections to the no-pair Dirac–Coulomb(–Breit) energy of heliumlike systems

Speaker
Ádám Nonn

18:00–20:00

Towards the self-energy correction of the no-pair Dirac$-$Coulomb energy for two-electron systems

Speaker
Adam Margocsy

18:00–20:00

Time and frequency standards at METAS and their applications for precision measurements

Speakers
Dr Antoine Jallageas, Dr Dominik Husmann, Dr Jacques Morel

18:00–20:00

Realization of an XUV comb and measurement on its linewidth with frequency comb spectroscopy

Speaker
Linqiang Hua

18:00–20:00

Long-range asymptotics of α^3-order QED corrections in H$_2$ and H$_2^+$

Speaker
Grzegorz Łach

18:00–20:00

Characterisation of an energetic beam of metastable positronium atoms for precision spectroscopy

Speaker
Donovan Newson

18:00–20:00

Hybrid Penning-Linear-Paul trap for ion recapture spectroscopy of hydrogen/ antihydrogen in a near-zero bias magnetic trap

Speaker
Levi Oliveira De Araujo Azevedo

18:00–20:00 **Calculations of the even parity P and D states of the carbon atom.**

Speaker
Toreniyaz Shomenov

18:00–20:00

Calculation of spin-dependent relativistic corrections in small atoms with one and two p-electrons using explicitly correlated Gaussians

Speaker
Pavel Rzhevskii

18:00–20:00

Status of laser spectroscopy of metastable antiprotonic helium atoms at CERN

Speaker
Masaki Hori

18:00–20:00 **Experiments with hydrogen atoms at ultra-low energies**

Speakers
Aleksei Semakin, Sergey Vasiliev

18:00–20:00 **New apparatus for single-photon Doppler-free VUV/XUV spectroscopy**

Speaker
Matthew H. Rayment

18:00–20:00

Injection of State-Selectively Prepared Molecular Ions into a Radiofrequency Trap

Speaker
Daniel Knapp

18:00–20:00 **New Physics contributions to atomic spectra**

Speaker
Sotiris Pitelis

18:00–20:00 **High Precision Spectroscopy of the Hydrogen Molecule and its Ion**

Speaker
Daniel Ochoa

20:00