Session Program

10–14 Jun 2024

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

Session 6

ETH Zurich- Hönggerberg Campus

Wednesday 12 June

14:15

Session 6

Session | **Location:** ETH Zurich- Hönggerberg Campus | **Convener:** Daniel Kienzler

14:15–14:40

A new frontier in fundamental physics: precision vibrational spectroscopy of H$_2^+$

Speaker
Soroosh Alighanbari

14:40–15:05

Molecular hydrogen ion spectroscopy: prospects for determination of fundamental constants and for theory improvements

Speaker
Jean-Philippe Karr

15:05–15:30

Quantum Logic Spectroscopy of the Hydrogen Molecular Ion

Speaker
David Holzapfel

15:30–15:55

Spin-Rovibrational Structure of the Molecular Hydrogen Ion from Spectroscopy of Rydberg States

Speaker
Ioana Doran

16:00

16:30

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16:30–16:55

Rovibrational energy levels of the hydrogen molecule and its isotopologues from relativistic nonadiabatic calculations

Speaker
Jacek Komasa

16:55–17:20

Stringent tests of ab initio QED calculations in the ALPHATRAP experiment

Speaker
Jonathan Morgner

17:20–17:45

Cavity-enhanced spectroscopy of $\rm \mathbf{H_2}$ in a deep cryogenic regime

Speaker
Kamil Stankiewicz

17:45