

Session Program

2-7 Jul 2023

Searching for New Physics at the Quantum Technology Frontier

Atoms and Exotic Atoms I

Congressi Stefano Francini (CSF), Ascona (Ticino), Switzerland
Monte Verità Strada Collina 84 CH-6612 Ascona (Ticino)

Monday 3 July

08:30

Atoms and Exotic Atoms I

Session |

Location: Congressi Stefano Franscini (CSF), Ascona (Ticino), Switzerland, Monte Verità Strada Collina 84 CH-6612 Ascona (Ticino) |

Convener: Paolo Crivelli

08:30–08:35 **Session's intro**

Speaker

Paolo Crivelli

08:35–09:10 **Challenging QED with atomic Hydrogen**

Speaker

Prof. Thomas Udem

09:10–09:45

Precision benchmarks for nuclear and atomic physics from laser spectroscopy of muonic atoms

Speaker

Aldo Antognini

09:45–10:10

Precision measurements of $n\text{K} - 2s$ transition frequencies in the hydrogen atom

Speaker

Simon Scheidegger

10:10–10:40 **Coffee break**

10:40–11:05 **Muonic vs. electronic dark forces**

Speaker

Clara Peset

11:05–11:30

Towards Improving the Precision of the Lamb Shift Measurement in Muonium

Speaker

Gianluca Janka

11:30–12:05

Testing fundamental interactions with the hyperfine splitting in light atomic systems

Speaker

Prof. Krzysztof Pachucki

12:15