

μ ASTI – Muonic Atom Spectroscopy Theory Initiative

Report of Contributions

Contribution ID: 1

Type: **not specified**

Introduction to μASTI

Friday, 14 June 2024 13:50 (25 minutes)

Presenters: Prof. ANTOGNINI, Aldo (ETH Zurich and PSI, Switzerland); PASCALUTSA, Vladimir (JGU Mainz)

Contribution ID: 2

Type: **not specified**

5-loop QED correction to muon $g-2$

Friday, 14 June 2024 14:15 (30 minutes)

Presenter: VOLKOV, Sergey

Contribution ID: 3

Type: **not specified**

Higher-order QED corrections in two-body systems

Friday, 14 June 2024 14:45 (30 minutes)

Presenter: PATKOS, Vojtech

Contribution ID: 4

Type: **not specified**

Numerical calculation of nuclear recoil effects

Friday, 14 June 2024 15:15 (30 minutes)

Presenter: YEROKHIN, Vladimir

Contribution ID: 5

Type: **not specified**

Heavy particle Quantum Electrodynamics

Friday, 14 June 2024 16:15 (30 minutes)

Presenter: PACHUCKI, Krzysztof (University of Warsaw)

Contribution ID: 6

Type: **not specified**

Measurement of muonic helium Lamb shift (REMOTE)

Friday, 14 June 2024 16:45 (30 minutes)

Presenter: POHL, Randolf (University of Mainz)

Contribution ID: 7

Type: **not specified**

μASTI write-up

Friday, 14 June 2024 17:15 (45 minutes)

Presenter: HAGELSTEIN, Franziska

Contribution ID: **8**

Type: **not specified**

Proton radii from electron scattering

Saturday, 15 June 2024 09:30 (30 minutes)

Presenter: SHARKOVSKA, Vladyslava (Paul Scherrer Institute)

Contribution ID: 9

Type: **not specified**

Proton electromagnetic form factors and radii from lattice QCD

Saturday, 15 June 2024 10:00 (30 minutes)

Presenter: Mr SALG, Miguel (University of Mainz)

Contribution ID: **10**

Type: **not specified**

Expansion of finite-size effects

Saturday, 15 June 2024 10:30 (15 minutes)

Presenter: PITELIS, Sotiris (Johannes Gutenberg-Universität Mainz)

Contribution ID: **11**

Type: **not specified**

QUARTET experiments

Saturday, 15 June 2024 11:15 (30 minutes)

Presenter: OHAYON, Ben (Hebrew University)

Contribution ID: 12

Type: **not specified**

Nuclear polarizabilities (REMOTE)

Saturday, 15 June 2024 09:00 (30 minutes)

Presenter: BARNEA, Nir (The Hebrew University)

Contribution ID: 13

Type: **not specified**

Nuclear radii from EFT calculations (REMOTE)

Saturday, 15 June 2024 12:15 (30 minutes)

Presenter: FILIN, Arseniy (Ruhr-Universität Bochum)

Contribution ID: 14

Type: **not specified**

Accounting for nucleon contributions in nuclei

Saturday, 15 June 2024 12:45 (20 minutes)

Presenter: Dr LENSKY, Vadim (JGU Mainz)

Contribution ID: 15

Type: **not specified**

Prospects for the determination of fundamental constants with beyond-state-of-the-art uncertainty using molecular hydrogen ion spectroscopy

Saturday, 15 June 2024 13:05 (30 minutes)

Presenter: Prof. SCHILLER, Stephan (Heinrich-Heine-Universität Düsseldorf)

Contribution ID: 16

Type: **not specified**

Accurately obtaining muonic hydrogen hyperfine splitting from the electronic result

Saturday, 15 June 2024 11:45 (30 minutes)

Presenter: CARLSON, Carl (William & Mary)