

Symposium Tests of Fundamental Physics with AMO Systems (SYFP)

jointly organised by
 the Quantum Optics and Photonics Division (Q),
 the Atomic Physics Division (A),
 the Molecular Physics Division (MO), and
 the Mass Spectrometry Division (MS)

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The continued advance in control over atomic, molecular and optical systems has led to impressive progress in measurement precision. New techniques have been developed to master novel systems, such as highly charged ions, muonic atomic systems, and antimatter. Their investigation provides insights into our understanding of nature, such as dark matter candidates as well as symmetry violation mechanisms beyond the standard model.

Overview of Invited Talks and Sessions

(Lecture hall RW 1)

Invited Talks

SYFP 1.1	Fri	11:00–11:30	RW 1	Searches for new bosons with isotope shift spectroscopy and the thorium nuclear transition — •ELINA FUCHS
SYFP 1.2	Fri	11:30–12:00	RW 1	Precision spectroscopy of muonic atoms — •RANDOLF POHL
SYFP 1.3	Fri	12:00–12:30	RW 1	Quantum-Controlled Molecules for Fundamental Physics and Quantum Science — •NICHOLAS HUTZLER
SYFP 1.4	Fri	12:30–13:00	RW 1	Testing Baryon Asymmetry with Antiprotons — •STEFAN ULMER

Sessions

SYFP 1.1–1.4	Fri	11:00–13:00	RW 1	Tests of fundamental physics with AMO systems
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Related session in the Quantum Optics and Photonics Division

Q 82.1–82.8	Fri	14:30–16:30	P 11	Matter Wave Interferometry, Metrology, and Fundamental Physics IV
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