

# **Fourth Workshop of the Center for Time, Constants and Fundamental Symmetries**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

# Antiproton Transport

*Thursday, 27 November 2025 13:30 (30 minutes)*

**Presenter:** SMORRA, Christian (Heinrich Heine University Dusseldorf (DE))

Contribution ID: 2

Type: **not specified**

# Coherent Spectroscopy with an Antiproton Spin

*Thursday, 27 November 2025 14:00 (30 minutes)*

**Presenter:** Dr LATACZ, Barbara Maria (CERN)

Contribution ID: 3

Type: **not specified**

## Progress Towards Antiproton Quantum Logic Spectroscopy

*Thursday, 27 November 2025 14:30 (30 minutes)*

**Presenter:** CORNEJO GARCIA, Juan Manuel (Leibniz Universitaet Hannover (DE))

Contribution ID: 4

Type: **not specified**

## Mu-Tex

*Thursday, 27 November 2025 15:00 (30 minutes)*

**Presenter:** KAISER, Annabelle

Contribution ID: 5

Type: **not specified**

## PENTATRAP

*Thursday, 27 November 2025 16:00 (30 minutes)*

**Presenter:** FILIANIN, Pavel

Contribution ID: 6

Type: **not specified**

# High-Precision Tests of Bound-State QED with Highly Charged Tin Ions

*Thursday, 27 November 2025 16:30 (30 minutes)*

**Presenter:** MORGNER, Jonathan (Universitaet Hannover (DE))

Contribution ID: 7

Type: **not specified**

# Sympathetic cooling in Penning traps using electron cyclotron radiation

*Thursday, 27 November 2025 17:00 (30 minutes)*

**Presenter:** Mr HERKENHOFF, Jost



Contribution ID: 8

Type: **not specified**

## **Small molecules, big questions: using molecular hydrogen ions to test the foundations of physics**

*Thursday, 27 November 2025 17:30 (30 minutes)*

**Presenter:** ALIGHANBARI, Soroosh (Institut für Experimentalphysik, Heinrich-Heine-Universität Düsseldorf)

Contribution ID: 9

Type: **not specified**

## Talk 8

Contribution ID: **10**

Type: **not specified**

**Talk 9**

Contribution ID: 11

Type: **not specified**

## Trapping $^{229\text{m}}\text{Th}$ ions for nuclear decay lifetime measurement

*Friday, 28 November 2025 09:00 (30 minutes)*

**Presenter:** YAMAGUCHI, Atsushi

Contribution ID: 12

Type: **not specified**

## **Nuclear laser spectroscopy of Th-229**

*Friday, 28 November 2025 09:30 (30 minutes)*

**Presenter:** TIEDAU (PTB)

Contribution ID: 13

Type: **not specified**

## **A solid-state continuous-wave VUV laser for a Th-229 nuclear clock**

*Friday, 28 November 2025 10:00 (30 minutes)*

**Presenter:** LAL (PTB)

Contribution ID: 14

Type: **not specified**

## Yb+/Sr+ Clock Comparisons

*Friday, 28 November 2025 11:00 (30 minutes)*

**Presenter:** HUNTEMANN, Nils (Physikalisch-Technische Bundesanstalt (PTB))

Contribution ID: 15

Type: **not specified**

## **Towards quantum logic spectroscopy of highly-charged heavy ions**

*Friday, 28 November 2025 11:30 (30 minutes)*

**Presenter:** MICKE, Peter



Contribution ID: 16

Type: **not specified**

## **Searching for a variation of the fine structure constant with highly charged ions**

*Friday, 28 November 2025 12:00 (30 minutes)*

**Presenter:** SCHAEFER, Vera (MPIK)

Contribution ID: 17

Type: **not specified**

## **Isotope shift measurements of Ca14+ for new physics searches and progress towards an optical clock based on Ni12+**

*Friday, 28 November 2025 14:00 (30 minutes)*

**Presenters:** Mr WEHRHEIM, Malte; Dr CHEN, Shuying

Contribution ID: **18**

Type: **not specified**

## CRYPTEX-2

*Friday, 28 November 2025 14:30 (30 minutes)*

Contribution ID: **19**

Type: **not specified**

## Towards a Hydrogen Lattice Clock

*Friday, 28 November 2025 15:00 (30 minutes)*

**Presenter:** AMIT, Omer (Max-Planck-Institut für Quantenoptik)