

GSI-FAIR Colloquium

Simple Atoms for Complex Questions in Fundamental Physics

Positronium and Muonium: Nature's Simplest Bound States



POSITRONIUM (Ps)
1S-2S



PRECISION
SPECTROSCOPY



Simple atoms
(Positronium & Muonium)



Precision
spectroscopy



Fundamental
constants
(e.g., muon mass)



Tests of new physics
and fundamental
symmetries



MUONIUM (Mu)
1S-2S, HFS

QED • FUNDAMENTAL CONSTANTS • MATTER-ANTIMATTER SYMMETRY • NEW PHYSICS

Simple Atoms for Complex Questions
in Fundamental Physics



Paolo Crivelli (ETH Zürich)



Tuesday, June 9, 2026 at 16:15



Main Lecture Hall, GSI



tea and cookies from 15:45



www.gsi.de/colloquium

