



Contribution ID: 279

Type: **Talk**

【368】 Investigation of muonium emitters at room temperature

Thursday, September 2, 2021 4:00 PM (15 minutes)

Muonium (M) atoms are interesting for a diverse palette of experiments reaching from precision spectroscopy to muon beam cooling and anti-matter gravity. We have been investigating new M emitters at room temperature. For the room-temperature study we have developed three compact experimental setups in order to compare vacuum yields and dynamic properties of various emitters. The setups pursue complementary approaches including scintillator bars and Micromegas tracking detectors for the decay positrons as well as a scintillator based atomic electron detector. In this talk we present the developed setups together with our findings about novel muonium emitters at room temperature.

Authors: NUBER, Jonas (PSI - Paul Scherrer Institut); AND THE MUONIUM EXPERIMENT

Presenter: NUBER, Jonas (PSI - Paul Scherrer Institut)

Session Classification: Nuclear, Particle- & Astrophysics

Track Classification: Nuclear, Particle- and Astrophysics (FAKT - TASK)