Session Program

7-12 Jul 2024

Early Career Conference in Trapped Ions (ECCTI) 2024

Poster session

Viktor-Franz-Hess Haus, Hörsaal B (Technik) Technikerstraße 25a, 6020 Innsbruck, Austria

Monday 8 July



16:48-16:50

High-precision mass measurements on highly charged ions with the PENTATRAP Penning-trap experiment

Speaker

Jan Nägele

16:50-16:52 Quantum technologies with trapped electrons

Speaker

Anna Migó

16:52-16:54 muCool: High brightness ultra-cold positive muon beam

Speaker

Joanna Peszka

16:54-16:56

The NQCC's Trapped Ion Team - technology development towards scalable quantum computing

Speaker

Georgina Croft

16:56-16:58

Antihydrogen formation using a slow merge mixing scheme in ASACUSA's Cusp trap

Speaker

Marcus Bumbar

16:58-17:00 Phase noise in a 729 nm laser system

Speaker

Luka Milanovic

17:00-17:02 Microfabricated quantum processor unit with integrated optics

Speaker

Jakob Wahl

17:02-17:04 Multiplexing of the Transport Through an X-Junction Ion Trap

Speaker

Janina Bätge

17:04-17:06

Estimating the dynamical error map of single-qubit gates under non-Markovian phase noise

Speaker

Alex Steiner

17:08-17:10

Investigation of Plasmas in a Penning-Malmberg Trap for Gabor lens development

Speaker Poram Ruksasakchai

17:10-17:12 An end-cap Paul trap for precision spectroscopy

Speaker Akhil Ayyadevara

17:12-17:14 Controlling the spontaneous emission of multiple trapped ions

Speaker

Tommaso Faorlin

17:14-17:16

Designing Robust RF Junctions for Register-Based Trapped-Ion Quantum Processors

Speaker

Florian Ungerechts

17:16-17:18 Cavity assisted ion-photon entanglement

Speaker

lan Ford

17:18-17:20

Building a cryogenic quantum computing demonstrator based on trapped ions

Speaker

David Christoph Stuhrmann

17:20-17:22

Imaging System Design for Trapped Ion Quantum Computing Demonstrators

Speaker

Radhika Goyal

17:22-17:24

Precision improvements for laser spectroscopy of anti-hydrogen in the ALPHA experiment

Speaker

Virginia Rose Marshall

17:24-17:26

Software Framework For Automated Calibration Of A Trapped-Ion Quantum Computer

Speaker

Mr Andreas Conta

17:26-17:28 High-Q room-temperature electron-ion Paul traps

Speaker

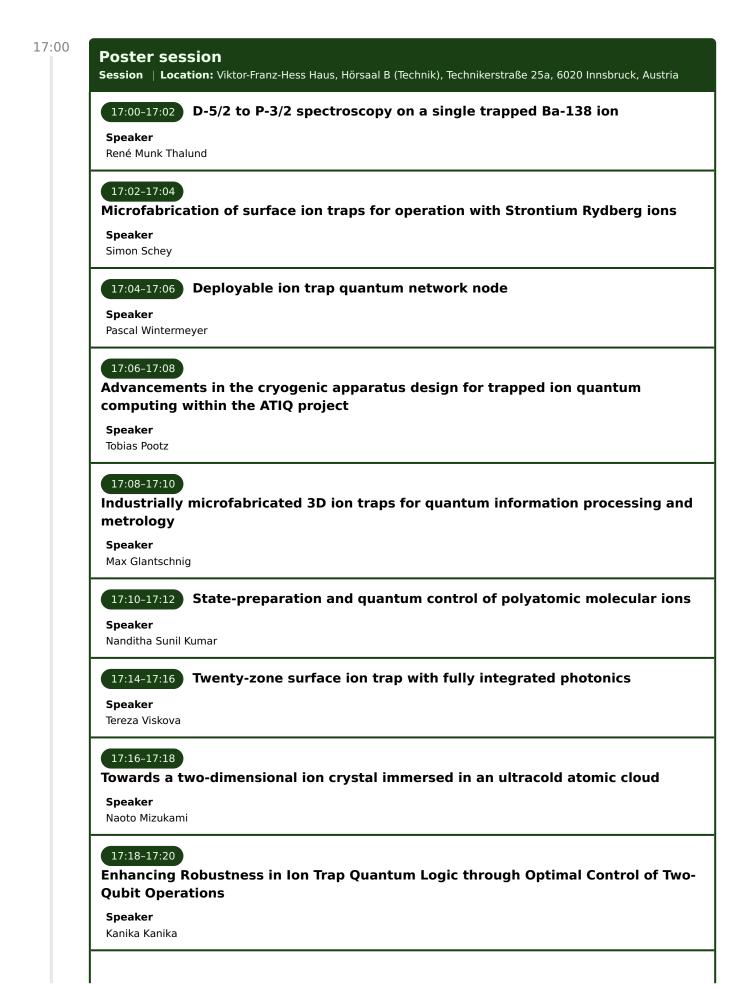
Niklas Vilhelm Lausti

17:28-17:30 Sub-Doppler cooling for ion-based qudits

Speaker Katya Fouka

18:45

Tuesday 9 July



17:20-17:22

Towards large scale quantum computing - a many qubit ion trap at room temperature

Speaker

Paul Venetz

17:22-17:24

Towards state preparation, readout, and control of polyatomic molecular ions using quantum logic spectroscopy

Speaker

Mariano Isaza Monsalve

17:24-17:26

Demonstration of 2D connectivity for a two-dimensional ion trap architecture

Speaker

Marco Valentini

17:26-17:28 Floquet-Gibbs states in laser-driven atomic systems

Speaker

Wilson Santana Martins

17:28-17:30

Design and Implementation of a Microwave-Based Rubidium Atomic Clock System

Speaker

Ms Shaleena Jayaram

17:30-17:32

Towards a high fidelity two-qubit state manipulation and readout using the ARTIQ Phaser and Grabber Modules.

Speaker

Tobias Maddock

17:32-17:34

Fabrication of ion trap microchips with advanced features for trapped ion quantum coumputing

Speaker Vijay Kumar

17:34-17:36

Progress towards a fault tolerant microwave-driven two qubit quantum processor utilizing Bayesian statistics for state determination

Speaker

Alexander Onkes

17:36-17:38

Trapped and cooled 88Sr+ ions in a cylindrical potential provided by a microfabricated ring trap

Speaker Lilay GROS-DESORMEAUX

17:38-17:40

Stopping and Trapping of Radioactive Isotopes for Precision Experiments (STRIPE)

Speaker

Phillip Imgram

17:40-17:42 Towards a Scalable Logical Qubit: Yb and Ba Ion Toolkit

Speaker

Parsa Rahimi

17:42-17:44 Integrated photonics in trapped ion quantum computing

Speaker

Dr Carmelo Mordini

17:44-17:46

Towards improvements in quantum networks using Fiber Fabry-Perot (FFP) microcavities

Speaker

Roberts Berkis

17:46-17:48

Controlling trapped-ion qubits with microwave near-fields and a stimulated-Raman laser system

Speaker Emma Vandrey

17:48-17:50

Design and development optimization of X junctions for three dimensional segmented ion traps

Speaker Santiago Emilio Bogino

17:50-17:52

A Ti:Sapph laser system for the state-selective preparation of nitrogen ions

Speaker

Amber Shepherd

17:52-17:54 Development of the antiproton trap for the GBAR experiment

Speaker

Byungchan Lee

17:54-17:56

Phase sensitive modified cyclotron frequency measurements with single trapped antiprotons

Speaker

Philip Geissler

17:56-17:58

Hybrid Penning-Linear-Paul trap for ion recapture in a near-zero bias magnetic trap for hydrogen/antihydrogen spectroscopy

Speaker

Levi Oliveira De Araujo Azevedo

17:58-18:00

Distributed quantum sensing in noisy environments with trapped ions

Tuesday 9 July 18:45