



# Early Career Conference in Trapped Ions (ECCTI) 2022

## Tuesday 28 June 2022

**Posters: Poster session - 61/1-201 - Pas perdis - Not a meeting room - (16:30 - 19:00)**

time	[id] title	presenter
16:30	[29] Improved precision on the measurements of low energy antimatter in the ALPHA experiment	THORPE-WOODS, Edward
16:33	[39] Sympathetic cooling of $9\text{Be}^+$ by laser-cooled $88\text{Sr}^+$ in an ion trap: an experimental simulation of the trapping and cooling of antimatter ions (GBAR experiment).	DRAPIER, Derwell
16:36	[73] Towards observing anti-hydrogen fluorescence: Investigation of SiPMs in cryogenic environments	SCHOONWATER, Joos Danjeel
16:38	[102] The Effects of Patch Potentials in Penning-Malmberg Traps	CHRISTENSEN, Andrew Jordan
16:41	[24] Sympathetic cooling of positrons with laser-cooled beryllium ions	PESZKA, Joanna
16:44	[34] Non-Destructive Diagnostics for the PUMA Antiproton Trap	FISCHER, Jonas
16:47	[78] Improving frequency resolution in BASE	JÄGER, Julia Ines
16:50	[125] Application of electron cyclotron resonance (ECR) magnetometry for experiments with antihydrogen	POWELL, Adam
16:52	[77] Development of a novel ion trap for laser spectroscopy	SINGH, Jaspal LOSPALLUTO, Giuseppe
16:55	[107] Bound Electron g Factor Measurements of Highly Charged Tin	MORGNER, Jonathan
16:58	[120] Characterization of a Multi-Reflection Time-of-Flight Mass Separator (MR-ToF MS) for the Offline Ion Source of PUMA	Mr SCHLAICH, Moritz
17:00	[126] Alkali-earth ions Confined for Optical and Radiofrequency spectroscopy for Nuclear moments (ACORN)	DORNE, Anais
17:02	[2] A compact penning trapped ion system for precision measurement	CHEN, Yao
17:05	[25] Towards High Resolution Spectroscopy of Nitrogen Ions	SHEPHERD, Amber
17:08	[37] Towards the Threshold Photodetachment Spectroscopic studies of $\text{C}_2^-$ and $\text{C}_2\text{H}^-$	PURUSHU MELATH, Sruthi
17:11	[52] Gas-phase spectroscopic studies of $[\text{dAMP-H}]^-$ in cryogenic 16-pole wire trap	MOHANDAS, Salvi
17:14	[75] Correlation spectroscopy with multi-qubit-enhanced phase estimation	HAINZER, Helene
17:17	[108] Precision measurement of electron g-factor in highly charged ions at ARTEMIS	KANIKA, Kanika
17:20	[8] Feshbach resonances in a hybrid atom-ion system	Mr WELZ, Joachim
17:23	[17] Coherent control of ion motion via Rydberg excitation	Ms MALLWEGER, Marion
17:26	[21] Photon statistics from a large number of independent single-photon emitters.	KOVALENKO, Artem
17:29	[23] Dielectric Properties of Plasma Oxides for Microfabricated Ion Traps	ZESAR, Alexander
17:32	[27] Feasible enhancement of collection efficiency of light from trapped ions	TRAN, Thuy Dung

17:35	[28] A multi-qubit gate zone for use in a large scale ion shuttling architecture	OWENS, Alex
17:38	[80] Simulating Potentials and Shuttling Protocols on an X-Junction Surface Trap	KULMIYA, Sahra
17:41	[103] Microwave-driven quantum logic in Ca <sup>43+</sup> at 288 Gauss	GELY, Mario
17:44	[105] High-Fidelity Entanglement Gates on Microfabricated Ion-Traps	ZANTIS, Petros
17:47	[109] Technical challenges of quantum computing with radioactive $^{133}\text{Ba}^+$ ions	LEPPARD, Jamie
17:50	[112] Towards measurement-based blind quantum computing with trapped ions	DRMOTA, Peter
17:53	[121] Quantum thermodynamics: Heat leaks and fluctuation dissipation	Dr ONISHCHENKO, Oleksiy
17:55	[122] Multipartite entanglement of trapped ions by graph-based optimized global Raman beams	Mr RAO, Arjun D.
17:57	[123] Single Ion Addressing for Reliable Isolation of <sup>171</sup> Yb <sup>+</sup> Hyperfine Qubit States	Mr MILLICAN, Maverick
17:59	[124] Photonic integration for trapped-ion quantum information science	Mr KNOLLMANN, Felix
18:01	[127] Improving robustness of laser-free entangling gates for a trapped-ion architecture	MIRONIUC, Madalina
18:03	[10] Quantum non-Gaussianity of multiphonon states of a single atom	PODHORA, Lukas
18:06	[38] Automated optical inspection and electrical measurement of industrially fabricated surface ion traps	Mr ANMASSER, Fabian
18:09	[44] Higher-order effects of electric quadrupole fields on a single Rydberg ion	SALIM, Shalina
18:12	[62] Industrially microfabricated ion traps with low loss materials	DIETL, Matthias
18:15	[66] A matter link for remote ion-trap modules	Mr BONUS, Falk
18:18	[69] TSV-integrated Surface Electrode Ion Trap for Scalable Quantum Information Processing	HENNER, Théo
18:21	[72] Demonstrating a logical qubit on a surface ion trap	SMITH, Daisy Ms KULMIYA, Sahra
18:24	[106] Towards a fault-tolerant universal set of microwave driven quantum gates with trapped ions	Mr MENDPARA, Hardik