

European Conference on Trapped Ions (ECTI)

Tuesday 26 September 2023

Tuesday Poster: Poster Session II (19:30-21:30)

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| [162] A novel control system architecture for quantum computing | KULIK, Paweł Mr SOWIŃSKI, Mikołaj Mr PRZYWÓZKI, Tomasz Mr KASPROWICZ, Grzegorz | |
| [207] Laser cooling and trapping of short-lived radium ions | KWAPISZ, Robert | |
| [201] Continuous lasing and atom number self-regulation of strongly coupled atoms in a high finesse cavity | SCHÄFER, Vera | |
| [194] QuMIC - Towards a cryogenic ion trap with integrated microwave generator | Dr HALAMA, Sebastian | |
| [182] 4K Cryogenic platform for the characterisation and development of cryogenic trapped-ion quantum computing technologies | TAYLOR-BURDETT, Pedro | |
| [63] Observation of an interaction between two parallel ion chains in a surface-electrode trap towards nanofriction studies | NISHIMOTO, Ryosuke | |
| [126] Single-Setting Quantum State Characterization | RINGBAUER, Martin | |
| [94] A segmented-blade ion trap with biasing rods | Mr KIM, Myunghun | |
| [154] Towards quantum logic spectroscopy of heavy few-electron ions | MICKE, Peter | |
| [167] Digital simulation of a 1D spin chain in qudits | EDMUNDS, Claire Louise | |
| [123] Investigating entanglement structure on a programmable trapped ion quantum simulator | JOSHI, Manoj Kumar | |
| [121] Investigating interference with phononic bright and dark states | PARKE, Harry | |
| [25] Addressing individual ions with microwaves | GELY, Mario | |
| [202] Cold highly charged ions in a Paul trap with superconducting magnetic shielding | DIJCK, Elwin | |
| [211] Quantum frequency conversion of Ba-138 single photons for long-distance quantum networking | KWAN, Michael | |
| [156] Status of the aluminium ion clock at PTB | DAWEL, Fabian | |
| [115] Adiabatic Rapid Passage of Phonons in Trapped Ion Crystals | FABRIKANT, Maya | |
| [187] Quantum Simulation of Oscillatory Unruh Effect with Superposed Trajectories | Mr CHENG, Xu Prof. LIN, Yiheng | |
| [103] Experimental setup for trapped Rydberg ions in cryogenic environment | Ms KUK, Natalia | |
| [185] A quantum perceptron gate and a classical Toffoli gate with microwave-driven trapped ions | HUBER, Patrick | |
| [65] Telecom-Wavelength Quantum Repeater Node Based on a Trapped-Ion Processor | Prof. LANYON, ben | |

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| [80] The stacked-ring ion guide and the MR-TOF MS developed for the NEXT experiment | BRAJKOVIĆ, Marko | |
| [64] A network of trapped-ion quantum computers | ARANEDA, Gabriel | |
| [79] Towards implementing quantum logic spectroscopy for (anti-)proton g-factor measurements | VON BOEHN, Moritz | |
| [190] Monolithic Miniature 3D Linear Trap for Cavity Integration | TEH, Soon | |
| [87] Unveiling the frontier of antiprotonic atom synthesis using trapped anions | Dr GROSbart, Malgorzata | |
| [69] Mixed qubit types in registers of individually addressed trapped barium ions | POKORNY, Fabian | |
| [60] Photon-mediated entanglement of co-trapped atomic barium ions | O'REILLY, Jameson | |
| [196] Towards cavity quantum electrodynamics with Barium ions | DAS, Diptaranjan KASSA, Ezra TAKAHASHI, Hiroki | |
| [104] Laser cooling of molecular anions for sympathetic cooling of antiprotons | PARNEFJORD GUSTAFSSON, Fredrik | |
| [186] Microwave-double dressed entangling gate with trapped 171Yb^+ ions | NÜNNERICH, Markus BARTHEL, Partick | |
| [58] Differential polarizability measurements using a $^{171}\text{Yb}^+$-$^{88}\text{Sr}^+$ dual-species optical clock | STEINEL, Martin | |
| [100] Toward precision spectroscopy of trapped chiral molecular ions for fundamental physics | SHAGAM, Yuval | |
| [209] Next-generation quantum computer system with long chains of trapped ions | Mr BISWAS, Debopriyo | |
| [77] Ion matter-wave interferometry in a nearly circular potential for a gyroscope application | SAITO, Ryoichi | |
| [113] Progress towards Integration of a High Finesse Optical Cavity with an Individually-Addressed Trapped Ion Chain | TOST, Jonas | |
| [155] Creation of entangled coherent states with the motional degrees of freedom of a trapped ion | Dr JEON, Honggi | |
| [107] Orientational melting of a two-dimensional ensemble of charged particles | SIAS, Carlo | |
| [118] Towards a long-chain trapped ion quantum simulator with in-situ mid-circuit measurement | KOTIBHASKAR, Nikhil | |
| [130] Measurement of the Damping Resistance of Laser Cooled 9Be^+ Ions using Image Current Detection | WIESINGER, Markus | |
| [139] Tensor-Network Assisted Quantum Algorithms for Quantum Simulations | JAVANMARD, Younes | |
| [90] Design of Molecular Cluster Dynamics through Digital Quantum Simulation on a Trapped Ion Quantum Computer | GREEN, Alaina | |
| [159] Detection of micromotion using direct dc potential scan and Rabi oscillation | CHUNG, Daun | |
| [111] Spin squeezing and entanglement generation in two-dimensional ion crystals with up to 105 ions | BOCK, Matthias | |
| [128] 2D ion trap architectures for enhanced qubit connectivity | VALENTINI, Marco | |
| [120] Fabrication of trapped ion microchips for microwave-based quantum computers | SIEGELE-BROWN, Martin | |
| [184] Isotope Shift Measurements of Ca^+ in a Trapped Ion Quantum Computing Platform | HUBER, Luca Immanuel | |
| [199] Modular variable laser cooling for efficient entropy extraction | FERK, Alexander | |

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| [198] Cryogenic trapped-ion system and quantum control of quantum harmonic oscillators | LI, Yue | |
| [191] Advances in state-preparation, cooling and state detection of N₂⁺ molecular ions | Mr ROGUSKI, Mikolaj | |
| [7] Feedback Cooling the Motion of a Trapped Ion | Mr DANG, Hans | |
| [134] Ion-cavity node engineering for scalable networked quantum computing | VERSINI, Lorenzo | |
| [223] Integrated ion traps for quantum metrology and information | Dr JORDAN, Elena | |
| [230] Studies of Highly Charged Ion Ensembles in the ARTEMIS trap and Direct Mass Measurements of Radio-nuclides at SHIPTRAP at GSI, Germany | Dr KANIKA, Kanika | |
| [133] Towards large scale quantum computing – a many qubit ion trap at room temperature | BRUCKE, Edgar | |
| [217] A Cryogenic System for Rapid Ion Trap Characterization | BRZECZEK, Merrell | |
| [108] Electronic control of trapped ion qubits | BALLANCE, Chris HARTY, Tom | |