

## **Poster Session I - 28 June - 16:15 - 17:45 h**

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|-----------|----------------------|------------------------------------------------------------------------------------------------------------------|
| <b>1</b>  | Giuseppe Baio        | <b>Structural Phase Transitions in Cold Atoms Mediated by Optical Feedback</b>                                   |
| <b>2</b>  | Alla Bezvershenko    | <b>Dicke Transition in Open Many-Body Systems Determined by Fluctuation Effects</b>                              |
| <b>3</b>  | Lucas Borges         | <b>Dynamics of Matter Waves Undergoing Bloch Oscillations in a Ring Cavity</b>                                   |
| <b>4</b>  | Miriam Büttner       | <b>Mott Transitions in a Cavity-BEC System: A Quantitative Comparison of Theory and Experiments</b>              |
| <b>5</b>  | Graeme Campbell      | <b>Optomechanical Self-Structuring and Brownian-Mean-Field Phase Transitions</b>                                 |
| <b>6</b>  | Mark Anthony Carroll | <b>Collective Anti-Bunching and Laser Thresholds in Nanolasers</b>                                               |
| <b>7</b>  | Marco Cattaneo       | <b>Collective Phenomena on Superconducting Qubits: Synchronization, Subradiance, and Entanglement Generation</b> |
| <b>8</b>  | Ana Cipris           | <b>Subradiance Beyond the Linear-Optics and the Dilute Regimes in Macroscopic Cold Atomic Clouds</b>             |
| <b>9</b>  | Tommas Comparin      | <b>Universal Spin Squeezing from the tower of States of U(1)-Symmetric Spin Hamiltonians</b>                     |
| <b>10</b> | Adrian Costa-Boquete | <b>Spontaneous Atomic Crystallization via Diffractive Dephasing in Optical Cavities</b>                          |
| <b>11</b> | François Damanet     | <b>Atom-Only Dynamics in Multimode Cavity QED</b>                                                                |
| <b>12</b> | Uros Delic           | <b>Tunable Dipole-Dipole Interaction Between Optically Levitated Nanoparticles</b>                               |

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| <b>13</b> | <b>Oriana Diessel</b>              | <b>Emergent Kardar-Parisi-Zhang Phase in Quadratically Driven Condensates</b>                                            |
| <b>14</b> | <b>Hodei Eneriz</b>                | <b>Loading and Cooling in an Optical Trap via Dark States</b>                                                            |
| <b>15</b> | <b>Francesca Famà</b>              | <b>Towards Continuous Superradiance with a Hot Atomic Beam</b>                                                           |
| <b>16</b> | <b>Catalin-Mihai Halati</b>        | <b>Fluctuations and Symmetry Effects in Many-Body Self-Organization in a Dissipative Cavity</b>                          |
| <b>17</b> | <b>Grant Henderson</b>             | <b>Mutual Self Structuring and Novel Kerr-Like Fragmentation in Coupled Light/Matter-Wave Interactions</b>               |
| <b>18</b> | <b>Daniela Holzmann</b>            | <b>A Versatile Quantum Simulator for Coupled Oscillators Using a 1D Chain of Atoms Trapped Near an Optical Nanofiber</b> |
| <b>19</b> | <b>Ole Iversen<br/>Thomas Pohl</b> | <b>Correlated Light and Self-Organization of Photons in Chiral Three-Level Emitter Chains</b>                            |
| <b>20</b> | <b>Peter Karpov</b>                | <b>Quantum Droplet Phases in Extended Bose-Hubbard Models with Cavity-Mediated Interactions</b>                          |
| <b>21</b> | <b>Aleksei Konovalov</b>           | <b>Impact of the Atomic Multilevel Structure on Observation of Spectral Lines</b>                                        |
| <b>22</b> | <b>Mateo Kruljac</b>               | <b>Collective Light-Atom Interaction in Free Space and in an Optical Cavity</b>                                          |
| <b>23</b> | <b>Lukáš Lachmann</b>              | <b>Highly Nonlinear Quantum Optics and Mechanics</b>                                                                     |