

**MC 4 Nano-electro-opto-mechanical systems I**

Thursday, 5 September, morning

Chair(s):

Room:

| Hours       | ID    | Name               | Type    | Title  |
|-------------|-------|--------------------|---------|--|
| 10h30-11h00 | 12935 | Ewold Verhagen     | Invited | Controlling nonreciprocity, non-Hermiticity, and nonlinearity in optomechanical networks           |
| 11h00-11h30 | 13023 | Laura Mercadé      | Invited | Cavity optomechanics platform for all-optical processing of microwave signals                      |
| 11h30-11h45 | 13525 | Surangana Sengupta | Oral    | Josephson Optomechanics  |
| 11h45-12h00 | 12964 | Jonathan L. Wise   | Oral    | Nonclassical mechanical states in cavity optomechanics in the single-photon strong-coupling regime |
| 12h00-12h15 | 13451 | Alberto Hijano     | Oral    | Backaction evading measurements with feedback cooling  |
| 12h15-12h30 | 13773 | Shulamit Edelstein | Oral    | Optomechanical coupling optimization in engineered nanocavities                                    |
| 12h30-13h00 | 12865 | Uroš Delić         | Invited | Non-Hermitian collective optomechanical effects in nanoparticle tweezer arrays                     |
| 16h30-16h45 | 13571 | Wolfgang Belzig    | Oral    | Exponentially strong symmetry breaking in a parametrically modulated quantum oscillator            |

**MC 4 Nano-electro-opto-mechanical systems II**

Thursday, 5 September, afternoon

Chair(s):

Room:

| Hours       | ID    | Name                   | Type    | Title   |
|-------------|-------|------------------------|---------|---|
| 16h00-16h30 | 12712 | Farbod Alijani         | Invited | Nonlinear dynamics of 2D material membranes in action                               |
| 13h00-13h15 | 13791 | Jouni Ahopelto         | Oral    | Enhancing electromechanical coupling to an optomechanical nanobeam                  |
| 16h45-17h00 | 12989 | Xin Zhou               | Oral    | Controlling multimode interactions in nanoelectromechanical systems by interference |
| 17h00-17h15 | 12829 | Matthijs H. J. de Jong | Oral    | Casimir force between superconductors   |
| 17h15-17h30 | 13604 | A. García-Martín       | Oral    | Torsional mechanical modes in coupled acousto-plasmonic antennas                    |
| 17h30-18h00 | 12888 | Oded Zilberberg        | Invited | Topological phase transitions in nonlinear driven-dissipative resonators            |
| 18h00-18h30 | 12733 | Vincent Dumont         | Invited | Hamiltonian reconstruction via ringdown dynamics                                    |



|             |       |                |      |                                       |
|-------------|-------|----------------|------|---------------------------------------|
| 11h30-11h45 | 15971 | Samaneh Moeini | Oral | On noise in optomechanical resonators |
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## MC 4 Nano-electro-opto-mechanical systems III

Friday, 6 September, morning

Chair(s):

Room:

| Hours       | ID    | Name              | Type    | Title   |
|-------------|-------|-------------------|---------|---|
| 9h00-9h30   | 14036 | Richard Norte     | Invited | Extreme-Aspect-Ratio Optomechanics: New Dimensions in Nanotechnology                            |
| 9h30-10h00  | 12792 | Anastasiia Ciers  | Invited | Crystalline high-Q AlN nanomechanical resonators for quantum optoelectromechanics               |
| 10h00-10h15 | 13449 | Andreas Hüttel    | Oral    | Magnetic Field Control of the Franck-Condon Coupling of Few-Electron Quantum States             |
| 10h15-10h30 | 12710 | A. Delattre       | Oral    | Towards single phonon counting  |
| 10h30-11h00 | 13546 | Federico Fedele   | Invited | Spin mechanical coupling and self-oscillations in a carbon nanotube electromechanical resonator |
| 11h00-11h30 | 13118 | Gerhard Kirchmair | Invited | Nonlinear Magnetomechanics  |

## Poster Session

Thursday, 5 September, afternoon

| ID    | Name                 | Title  |
|-------|----------------------|--|
| 12845 | Matthew Herbst       | Detecting Gravity at the Milligram Scale Using Optomechanics         |
| 12913 | Jana Bauer           | Integrated quantum acoustics with superconducting qubits             |
| 13287 | Akong Loh            | Cavity optomechanics with a carbon nanotube nanomechanical resonator |
| 13343 | Leyre Larraya-Sancho | 4.5 GHz electro-mechanical resonators on bulk LiNbO <sub>3</sub>     |
| 13625 | O. R. Ranjbar-Naein  | Variability Impact on Hypersonic 1-D Phononic and Photonic Crystals  |