

Monday

10h00 - 10h25	Morning coffee	
10h25 - 10h30	Foreword	
10h30 - 11h15	David Moore	Precision searches for new physics using optically levitated sensors
11h15 - 12h00	Matteo Carlesso	Non-interferometric diagnostics of collapse models
12h00 - 12h15	Morning break	
12h15 - 13h00	Rainer Kaltenbaek	Towards a space platform for macroscopic tests of quantum physics
13h00 - 16h30	Lunch break	
16h30 - 17h15	Brian D'Urso	Optomechanics with a Particle in a Magneto-Gravitational Trap
17h15 - 17h45	Matthew O'Brien	Magneto-mechanical trapping of micro-diamonds at low pressures
17h45 - 18h00	Afternoon break	
18h00 - 18h45	Jack Harris	Magnetic levitation and evaporative cooling of a mm-scale drop of superfluid liquid helium
18h45 - 19h15	Aaron Kabcenell	Levitated Micro-Magnets as Quantum Transducers
20h00 - ...	Welcome diner	Restaurant "La Llardana"

Tuesday

9h45 - 10h15	Morning coffee	
10h15 - 11h00	Markus Aspelmeyer	TBA
11h00 - 11h30	Nadine Meyer	Cavity cooling of levitated nanoparticles
11h30 - 11h45	Morning break	
11h45 - 12h15	Ashley Setter	State estimation and feedback cooling of levitated nanoparticles
12h15 - 13h00	Radim Filip	Quantum and nonlinear optomechanics beyond ground state
13h00 - 16h15	Lunch break	
16h15 - 17h00	Nikolai Kiesel	Optical levitation in far-from-equilibrium systems
17h00 - 17h30	Maxime Debiossac	Generalized 2nd law of thermodynamics under non-Markovian feedback control using a levitated particle
17h30 - 17h45	Afternoon break	
17h45 - 18h15	Petr Zapletal	Dynamically generated Synthetic Electric Fields for Photons
18h15 - 19h00	Sougato Bose	Exploring non-classicalities of gravity & nano-objects

Wednesday

9h30 - 10h00	Morning coffee	
10h00 - 10h45	James Millen	Size matters; pushing towards smaller particles. Rotation, microcavities and electrical control.
10h45 - 11h30	Ben Stickler	Theory of optomechanics with rotating nanoparticles
11h30 - 11h45	Morning break	
11h45 - 12h15	Jonghoon Ahn	Torsional optomechanics and nonequilibrium thermodynamics of a levitated nanoparticle
12h15 - 13h00	Andrew Geraci	Searching for gravitational waves and new short-range forces with optically trapped sensors
13h00 - 16h15	Lunch break	
16h15 - 19h00	Afternoon discussions	
19h15 - ...	Poster session/diner	Poster session along with food and drinks

Thursday

10h00 - 10h30	Morning coffee	
10h30 - 11h15	Martin Frimmer	Optical trapping in vacuum: Exploring static interactions
11h15 - 11h45	Francesco Ricci	Precise mass measurement of a levitated nanoparticle in vacuum for sensing applications
11h45 - 12h00	Morning break	
12h00 - 12h30	Jana Damková	Motion of optically levitated nanoparticle in nonlinear regime
12h30 - 13h00	José Leitão	Stochastic nonlinear filtering for levitated systems
13h00 - 16h15	Lunch break	
16h15 - 17h00	Oriol Romero-Isart	Hot or cold nanospheres? maybe none of the above
17h00 - 17h30	Felix Tebbenjohanns	Optimal position reconstruction of a thermally driven harmonic oscillator for feedback cooling
17h30 - 17h45	Afternoon break	
17h45 - 18h30	Gabriel Hetet	Levitating particles in a Paul trap for spin-mechanics
18h30 - 19h00	Gerard Planes Conangla	Motion control and optical interrogation of a levitating single NV in vacuum

Friday

9h30 - 10h00	Morning coffee	
10h00 - 10h45	Peter Barker	Laser refrigeration of nanoparticles
10h45 - 11h30	Nobuyuki Matsumoto	Prospect for the ground state cooling of mg-scale mechanical oscillators
11h30 - 11h45	Morning break	
11h45 - 12h30	Tracy Northup	Ion-trap approaches to quantum optomechanics
12h30 - 13h00	Ephraim Shahmoon	Quantum optomechanical response of a two-dimensional atomic array
13h00 - 16h15	Lunch break	
16h15 - 17h00	Loic Rondin	Direct measurement of Kramers turnover with a levitated nanoparticle
17h00 - 17h30	Vojtech Svak	Orbital motion from optical spin: the extraordinary momentum of circularly polarized light beams
17h30 - 17h45	Afternoon break	
17h45 - 18h30	Thomas W. LeBrun	Comparing optically and mechanically constrained oscillators for precision measurement
18h30 - 19h00	Oto Brzobohatý	Optically assembled tunable colloidal waveguide