PROGRAM

Wednesday, 3rd June

8:00-8:50	Arrival, badge/program	
8:50-9:00	Organizers	Opening
9:00-9:30	**I. Favero**	*Miniature Optomechanical Disks : Quantum to Liquid Applications.*
9:30-10:00	**D. Vitali**	*Microwave Quantum Illumination.*
10:00-10:30	**M. Abdi**	*Nano-mechanical quantum states in a circuit quantum electrodynamics device.*
10:30-11:00	Coffee Break/registration	
11:00-11:30	**E. Weig**	*Nonlinear dynamics of strongly coupled nanomechanical resonator modes.*
11:30-12:00	**G. Hadziioannou**	*The emerging technology of Organic Flexible and Printable Electronics.*
12:00-12:20	**E. Krali**	*Silicon suspended nano-beams with exceptional electronic and electromechanical properties.*
12:20-14:15	Lunch	
14:15-14:45	**A. Bachtold**	*Mechanical resonators based on nanotubes and graphene.*
14:45-15:15	**W. Wernsdorfer**	*Quantum Einstein-de-Haas effect.*
15:15-15:35	**G. Micchi**	*Signatures of the current blockade instability in suspended carbon nanotubes.*
15:35-17:00	Posters (with Coffee)	
17:00-17:30	**J. Pekola**	*Information powered cooling in a single-electron circuit.*
17:30-18:00	**A. Auffeves**	*Reversible work extraction in a hybrid opto-mechanical system.*

Thursday, 4th June

9:00-9:30	**B. Lounis**	*Probing local electric fields using single molecules spectroscopy.*
9:30-10:00	**M. Orrit**	*Single-molecule optical lines at cryogenic temperatures as nanomechanical sensors.*
10:00-10:30	**J. Tamayo**	*Biosensors based on Nanomechanical Systems.*
10:30-11:00	Coffee Break	
11:00-11:30	**S. Ilani**	*Engineering an Artificial Electron-Phonon Coupling in Ultra-Clean Nanotube Mechanical Resonators.*
11:30-12:00	**I. Wilson-Rae**	*Anomalous phonon-broadened exciton spectra in a nano-optomechanical system.*
12:00-12:20	**I. Tsioutsios**	*Detecting the Motion of Carbon Nanotube Resonators in a Scanning Electron Microscope.*
12:20-14:15	Lunch	
14:15-14:45	**J. Ruitenbeek**	*Single molecules: current excitation of vibration, rotation, and translation.*
14:45-15:15	**A. Levy Yeyati**	*Electron-phonon interactions and quantum noise in molecular junctions.*
15:15-15:45	**C.A. Perroni**	*Charge and heat transport of soft nanosystems in the presence of time-dependent perturbations.*
15:45-16h30	Posters (with Coffee)	
16:30-17:00	**F. Marquardt**	*Topologically Protected Transport of Photons and Phonons.*
17:00-17:30	**J. Cayssol**	*Persistent and dissipative currents around two-dimensional topological insulators.*
17:30-18:00	**L. Foa Torres**	*Using light as a topological switch: The road towards Floquet topological insulators.*
20:00	Conference dinner, La Belle Epoque, Bordeaux.	

Friday, 5th June

9:00-9:30	**A. Heidmann**	*Micro- and nano-optomechanics towards quantum state and hybrid devices.*
9:30-10:00	**O. Arcizet**	*Hybrid spin-nanomechanical system.*
10:00-10:30	**J.-P. Poizat**	*Strain-mediated coupling in a quantum dot-mechanical oscillator hybrid system.*
10:30-11:00	Coffee Break	
11:00-11:30	**A. Clerk**	*Non-reciprocal interactions via reservoir engineering.*
11:30-12:00	**P. Verlot**	*Cavity Optomechanics with Free Electrons.*
12:00-12:30	**A. Ayary**	*Synchronization and phase inertial in a field emission NEMS.*
12:30	Closing/Lunch	
	Departure	