

BEYOND CMOS: ALTERNATIVE COMPUTING PARADIGMS

SECOND ICN2 SEVERO OCHOA WORKSHOP ON ICT

FRIDAY 22 APRIL 2022 - FROM 9:00 TO 17:30 (CET)

09:00 – 09:10	Welcome by Pablo Ordejón (ICN2 Director)
Chair: Juan Sierra (ICN2)	
09:10 – 10:00	Can Onur Avci (ICMAB-CSIC, Bellaterra) <i>Trends and opportunities in metallic and insulating spintronics</i>
10:00 – 10:50	Sayani Majumdar (VTT Espoo) <i>Neuromorphic Computing and Adaptive Sensing - A Device to Systems Level Perspective</i>
10:50 – 11:10	Coffee break
Chair: Clivia Sotomayor Torres (ICN2)	
11:10 – 12:00	Francesc Perez-Murano (CNM-CSIC, Bellaterra) <i>Advanced nanofabrication opportunities for silicon spin qubits</i>
12:00 – 12:50	Val Zwiller (KTH, Kista) <i>Quantum Hardware for the generation, manipulation and detection of light at the single photon level</i>
12:50 – 14:20	Lunch
Chair: Emigdio Chavez-Angel (ICN2)	
14:20 – 15:10	Tobias Kippenberg (EPFL) ONLINE <i>Cavity Quantum Optomechanics</i>
15:10 – 16:00	Phillip Ben-Abdallah (Institut d'Optique, Paris Saclay) <i>Information treatment with thermal photons</i>
16:00 – 16:20	Tea break
Chair: Martin Poble (ICN2)	
16:20 – 17:10	Eva Weig (TU Munich) ONLINE <i>A phononic frequency comb from a single resonantly driven nanomechanical mode</i>
17:10 – 17:30	Wrap up and end of workshop - Clivia Sotomayor Torres (ICN2)