

# ICSNN 2018

## PROGRAM AT A GLANCE

MONDAY 23 JULY 2018		TUESDAY 24 JULY 2018		WEDNESDAY 25 JULY 2018		THURSDAY 26 JULY 2018		FRIDAY 27 JULY 2018			
Time	Auditorium	Time	Auditorium	Time	Auditorium	Time	Auditorium	Time	Auditorium		
08:15-09:00	Registration (open all day)	08:00-09:00	Registration (open all day)	08:00-09:00	Registration (open all day)	08:00-09:00	Registration (open all day)	08:00-09:00	Registration (open all day)		
09:00-09:15	Welcome	09:00-09:45	<b>Pablo Jarillo-Herrero:</b> Magic-Angle Graphene: a New Platform for Strongly Correlated Physics	09:00-09:45	<b>Leo Kouwenhoven:</b> Majorana Qubits	09:00-09:45	<b>Jason Petta:</b> Coherent Coupling of a Single Spin to a Single Photon	09:00-09:45	<b>Michelle Simons:</b> Quantum Computing in Silicon		
09:15-10:00	<b>Tony Heinz:</b> Probing and controlling excitons in 2D semiconductors										
10:00-10:30	<b>Andrés Castellanos:</b> Franckeite: a naturally occurring superlattice	09:45-10:15	<b>Cristiane Morais-Smith:</b> There is plenty of room at the bottom, but even more in a fractal	09:45-10:15	<b>Elena Klinovaja:</b> Metallization of Rashba wire by superconducting layer in the strong-proximity regime	09:45-10:15	<b>Hongqi Xu:</b> Quantum dots made from semiconductor nanowires and nanolayers for quantum information processing	09:45-10:15	<b>Seigo Tarucha:</b> Versatile Spin Control with Triple Quantum Dots: Hybrid Spin Qubit, QND, and Coherent Entanglement Transfer		
10:30-11:00	Oral contributions	10:15-11:00	Oral contributions	10:15-10:45	<b>Katrina Franke:</b> Yu-Shiba-Rusinov states in single atoms and molecules on superconductors	10:15-11:00	Oral contributions	10:15-10:45	<b>2018 ICSN-YSA Presentation:</b> <b>Dohum Kim:</b> Semiconductor quantum dot based quantum electronics		
				10:45-11:00	Oral contribution			10:45-11:00		Oral contribution	
11:00-11:30	Coffee Break	11:00-11:30	Coffee Break	11:00-11:30	Coffee Break	11:00-11:30	Coffee Break	11:00-11:30	Coffee Break		
11:30-12:00	<b>Steven Louie:</b> Topological and Interaction Effects in Atomically Thin 1D & 2D Materials	11:30-12:00	<b>Mark Fox:</b> Non-Reciprocal Transmission and Reflection of a Chirally-Coupled Quantum Dot	11:30-12:00	<b>Hans W. Schumacher:</b> Single electron pumps for the revised SI system of units	11:30-12:00	<b>Laurens Molenkamp:</b> Topological Physics in HgTe-based Quantum Devices	11:30-12:15	<b>Philip Kim:</b> Interlayer Excitons and Magneto-Exciton Condensation in van der Waals Heterostructures		
12:00-12:30	<b>Antti-Pekka Jauho:</b> Quantum Transport in Nanostructured Graphene	12:00-12:30	<b>Ravets Sylvain:</b> Using fractional quantum Hall states to enhance polariton-polariton interactions	12:00-13:30	Oral contributions	12:00-13:00	Oral contributions	12:15-12:45	Oral contributions		
12:30-13:00	Oral contributions	12:30-13:30	Oral contributions			13:00-13:30	<b>Vladimir Fomin:</b> Topology- and geometry-driven effects in advanced micro- and nanoarchitectures	12:45-13:15	<b>2018 ICSN-YSA Presentation:</b> <b>Galan Moody:</b> Quantum Dots in 2D Materials: Progress, Challenges, and Opportunities		
13:00-13:30	<b>Luis Brey:</b> Charged topological solitons in zigzag graphene nanoribbons										
13:30-14:45	Lunch	13:30-14:45	Lunch	13:30-14:30	Conference Picture and Lunch	13:30-14:45	Lunch	13:15	Closing		
14:45-15:15	<b>Andrew Sacharajda:</b> Investigation of the Single and Two Hole Lateral Quantum Dot System	14:45-15:15	<b>Anna Fontcuberta:</b> Novel and scalable III-V nanostructures for photonics and quantum transport	14:30-20:30	Segovia Tour	14:45-15:15	<b>Amalia Patane:</b> From epitaxy to science and processing technologies of novel van der Waals crystals	15:15-16:15	Oral contributions		
15:15-16:15	Oral contributions	15:15-16:15	Oral contributions								
16:15-16:30	Coffee-break	16:15-16:30	Coffee-break			16:15-16:30	Coffee-break				
16:30-17:00	<b>Lieven Vandersypen:</b> Tem Quantum Computation and Simulation -- Spins Inside	16:30-17:15	<b>Daniel Loss:</b> Ge and Si nanowires: new platforms for spin and majorana qubits			16:30-17:00	<b>Jean-Pierre Leburton:</b> 2D semiconductors for Nanoscale Biology				
17:00-18:00	Oral contributions	17:15-18:00	Oral contributions			17:00-18:00	Oral contributions				
18:00-19:30	Posters session	18:00-19:30	Posters session			18:00-19:30	Poster session				
20:00h	Welcome Reception at Historical Student Residence							20:30	Conference dinner		