

## Summer school program on Superconducting Electronics - Minorca, Spain - 23-28 September 2018

schedule	Monday September 24, 2018	Tuesday September 25, 2018	Wednesday September 26, 2018	Thursday September 27, 2018	Friday September 28, 2018
9h00-9h45	<b>8H45-9H00 : WELCOME</b> Theory I : Basics of superconductivity Mikhail BELOGOLOVSKII	Theory III the Josephson effect Mikhail BELOGOLOVSKII	Theory IV : novel electronics pi- and phi- junctions, memristors Mikhail BELOGOLOVSKII	Cryogeny I basic aspects Alain RAVEX	Cryogeny II Electronics and detectors Alain RAVEX
9h45-10h30	Theory II : proximity effect S/N, S/I, S/F interfaces Mikhail BELOGOLOVSKII	SQUIDS I : fundamentals, characteristics and noise Carmine GRANATA	SQUIDS III SQUIDS and geoscience Ronny STOLZ	SQUIDS V : nanoSQUID: a powerful tool for nanoscale investigations Carmine GRANATA	SQUIDS VII : RF Applications of SQUID arrays Denis CRETE
10h30-11h00	coffee break at the Snack Bar (open from 10h30 to 18h30)				
11h00-11h45	Digital I basics of SFQ electronics Pascal FEBVRE	Digital III SFQ circuit design Coenrad FOURIE	Digital V AQFP Logic Olivia CHEN	Digital VII HDL design of SFQ circuits Ali BOZBEY	Digital VIII Complex SFQ circuits Ali BOZBEY
11h45-12h30	Detectors I : introduction to superconductive detectors Sergio PAGANO	Detectors III : STJ and SSPD detectors Sergio PAGANO	HTS I : Introduction to High Tc superconducting cuprates Cheryl FEUILLET-PALMA	Metrology I Johannes KOHLMANN	Metrology II Johannes KOHLMANN
12h30-16h30	lunch break (13H00-15H00)				
16h30-17h15	Quantum I : Introduction to Quantum Computation Sergey SHEVCHENKO	Quantum II : superconducting qubits for quantum information Farshad FOROUGH	Quantum III : superconducting qubits for quantum information Farshad FOROUGH	Quantum IV : Quantum Dynamics of [Superconducting] Qubits Sergey SHEVCHENKO	End of school
17h15-18h00	Digital II SFQ digital electronics Coenrad FOURIE	Digital IV AQFP Logic Olivia CHEN	Digital VI : Energy-efficient SFQ & reversible computing Jie REN	HTS II : High Tc Josephson junction devices and Single Photon Detectors Cheryl FEUILLET-PALMA	
18h00-18h30	coffee break at the Snack Bar (open from 10h30 to 18h30)				
18h30-19h15	Detectors II Submm/THz detectors Boon-Kok TAN	SQUIDS II practical DC SQUIDS Ronny STOLZ	SQUIDS IV : SQUIDS in Neuroscience Stefania DELLA PENNA	SQUIDS VI : SQUIDS in Neuroscience Stefania DELLA PENNA	
19h15-20h00	Technology I : fabrication techniques and novel processes Nataschia de LEO	Technology II basics of thin film technology Juergen KUNERT	Technology III : thin film technology for superconductor electronics Juergen KUNERT	Detectors IV Submm/THz detectors Boon-Kok TAN	
20h00-21h00	20H : dinner	20H : dinner			
21h00-22h00	Attendees poster session	Attendees poster session	20H : dinner	20H : SOCIAL DINNER	