

Summer school on Superconducting Electronics - Pula, Sardinia - 25-30 September 2016

sponsored by IEEE-CSC, ESAS, the European FLUXONICS Society and the French SEFIRA Society

schedule	Sunday September 25	Monday September 26	Tuesday September 27	Wednesday September 28	Thursday September 29	Friday September 30	
8h45-9h30	arrival of participants	8H45-9H15 : WELCOME Overview Superconducting electronics Horst ROGALLA	SQUIDS I : fundamentals, characteristics and noise Carmine GRANATA	superconducting qubits for quantum information II Olivier BUISSON	Detectors II SIS detectors Alexandre KARPOV	Detectors V SNSPD detectors Sergio PAGANO	
9H30-10H15			SQUIDS II practical DC SQUIDS Ronny STOLZ	SQUIDS III : readout electronics for SQUIDS Mikko KIVIRANTA	Detectors III Detection applications Sergio PAGANO	SQUIDS VII TES & multiplexing Mikko KIVIRANTA	
10H15-10H45		coffee break					
10H45-11H30		Theory I : superconducting heterostructures & proximity effect Mikhail BELOGOLOVSKII	Metrology I Johannes KOHLMANN	Metrology II Johannes KOHLMANN	SQUIDS V SQUIDS and geoscience Ronny STOLZ	SQUIDS VIII rf-SQUIDS & SQIFs Denis CRETE	
11H30-12H15		Theory II the Josephson effect Mikhail BELOGOLOVSKII	Digital III HDL design of SFQ circuits Ali BOZBEY	Digital VI : Design and test of complex SFQ circuits Ali BOZBEY	Digital VII HTS circuits Horst ROGALLA	Cryogeny II Electronics and detectors Alain RAVEX	
12H15-16H15		lunch break					
16H15-17H00		superconducting qubits for quantum information I Olivier BUISSON	Devices scaling Horst ROGALLA	HTS cuprate materials & JJs properties and fabrication Nicolas BERGEAL	HTS circuits Practical realizations Nicolas BERGEAL	End of school	
17H00-17H45		Technology I basics of thin film technology Juergen KUNERT	Technology II : thin film technology for superconductor electronics Juergen KUNERT	SQUIDS IV : nanoSQUIDS and their applications Carmine GRANATA	Cryogeny I basic aspects Alain RAVEX		
17H45-18H15		coffee break					
18H15-19H00		19H00 : registration	Digital I basics of SFQ electronics Pascal FEBVRE	Digital IV SFQ circuit design : practicals Coenrad FOURIE	Detectors I Detection mechanisms Sergio PAGANO		Detectors IV other astronomy detectors Alexandre KARPOV
19H00-19H45	19H30 : welcome party	Digital II SFQ digital electronics Coenrad FOURIE	Digital V SFQ circuit design : practicals Coenrad FOURIE	Technology III HTS technology Horst ROGALLA	SQUIDS VI SQUIDS and biomagnetism Ronny STOLZ		
20H00-21H00	20H : dinner	20H : dinner	20H : dinner	20H : dinner	20H : SOCIAL DINNER		
21H00-22H00		Attendees poster session					