

QCIT [tentative] Program

Session	Time	Name	Topic					
Registration	07:30							
Opening	8:40-9:00							
		Rob Fastenau, Dean EEMCS, TUD	Opening					
Plenary	9:00-9:50							
		[Invite] Ravi Pillarisetty, Intel	From Silicon Transistors to Qubits at Intel					
		[Invite] Lloyd Hollenberg	Quantum computer					
Break/Poster	9:50-10:20							
CMOS compatible qubit	10:20-11:45							
		[Invite] Andrew Dzurak, UNSW	CMOS compatible qubit					
		S. Moriyama, NIMS	QDs with TFET					
		G. Eenink, UTwente	Large-scale quantum computation with silicon quantum dot qubits					
		Gonzalez Zalba, Hitachi Cambridge	Investigation of CMOS SOI devices for quantum computing					
		van der Heijden	Study of single isolated donors and acceptors in CMOS trigate nanowire transistors.					
Lunch/Poster	11:45-13:45							
Cryo CMOS	13:45-14:55							
		[Invite] Bluhm, Aachen RWTH	Design considerations for integrated control electronics for a large-scale solid state quantum processor					
		Xavier Jehl and P. Clapera, LETI	Electron pumps and cryogenic ring oscillators					
		H. Homulle, QuTech	An FPGA-based cryogenic platform for the classical control of Quantum Computers					
		M. Tagliaferri, CNR-IMM	Realization of a benchmark setup to interface future qubits with conventional electronics.					
Break/Poster	14:55-15:25							
Cryo Interconnect	15:25-16:40							
		[Invite]TBA	3D wiring for quantum computer					
		[Invite] Michael Trupke, TU Vienna	Quantum interference for sensing and qubit control with NV centres in diamond					
		[Invite] Maja Cassidy, QuTech	On-chip Microwave Generation with a Josephson Maser					
Late news								
Closing	16:50-17:00							
Farewell reception	17:00-19:00							
QuTech Lab Tour	17:15-18:30							
Posters								
		Sougato Bose, UC London	Classical Reversible Computation with Spin Qubits in Silicon					
		E. Dupont-Ferrier, CEA	Dopants in CMOS transistors: A building block for Quantum Information Processing					
		S. Tenberg, QCCT	Fabrication of a CMOS-compatible silicon quantum processor					