

Indo-German Symposium on Quantum Science and Technologies

9-10 February 2020

Hall III, IC&SR Building, IIT Madras, Chennai

Agenda

Sunday, 9th February 2020

Time (hrs)	Programme
09:15 - 10:00	Jan Timper (FZ Jülich) Positioning Forschungszentrum Julich in quantum computing research
10:00 - 10:30	Welcome and Opening Remarks <ul style="list-style-type: none">Ms Karin Stoll Consul General Consulate General of the Federal Republic of Germany, ChennaiDr Katja Lasch Director, German Centre for Research and Innovation (DWIH) New DelhiProf. Bhaskar Ramamurthi Director, IIT Madras
10:30 - 11:00	Coffee Break
11:00 - 11:45	Anil Prabhakar / Arul Lakshminarayan (IIT Madras) QuICC @ IITM
11:45 - 12:30	C. M. Chandrashekar (IMSc) Quantum simulations and Dirac cellular automata on a programmable quantum computer

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12:30 - 14:00	Lunch (Poster Session)
14:00 - 14:45	David Gross (University of Cologne) Powers of the Clifford group, with applications to coding, property testing, and resource theories
14:45 - 15:30	Rajiah Simon (IMSc) Entanglement and Linear Canonical Transformations
15:30 - 16:00	Coffee break
16:00 - 16:45	Thomas Schaepers (FZ Jülich) Novel approaches to realize quantum circuits using semiconductor nanowires and topological insulators
16:45 - 17:30	R. Vijayaraghavan (TIFR) High fidelity measurements in superconducting qubits
17:30 - 18:15	Kavita Dorai (IISER Mohali) Detection, characterization and protection of quantum correlations on an NMR quantum processor

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Monday, 10th February 2020

Time (hrs)	Programme
9:15 - 10:00	David DiVincenzo (FZ Jülich) Current questions of fault tolerance for quantum-dot spin qubits
10:00 - 10:45	Panel Discussion
10:45 - 11:15	Coffee Break
11:15 - 12:00	Urbasi Sinha (RRI) qkdSim: An experimenter's simulation toolkit for QKD with imperfections, and its performance analysis with a demonstration of the B92 protocol using heralded photon
12:00 - 12:45	Arvind (IISER Mohali) Quantum key distribution with continuous variables
12:45 - 14:00	Lunch
14:00 - 17:00	Poster Session QKD Demo Lab Visits
	End of the Symposium

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