

## BIRS Workshop - Quantum Technology: Computational Models for Quantum Device Design (12w5061) - Timetable 1.6

Su, 8/1/2012	Mo, 9/1/2012	Tu, 10/1/2012	We, 11/1/2012	Th, 12/1/2012	Fr, 13/1/2012
7:00 Breakfast	Device Modelling				
8:45 BIRS	Introduction by Station Manager				
09:00 <b>Schirmer, Langbein, Hollenberg</b>		<b>Martin Plenio</b>			<b>Thomas Schulte-Herbruegen</b>
09:15 chair: Sophie Plenio, Bandrauk, Glaser, Schirmer Sanders, Schulte-Herbruegen		Survey			
09:30 <b>Richard Muller</b>		Quantum Coherence and Biological Systems	chair: Thomas Schulte-Herbruegen	<b>Frank Langbein, Jonathan Quinn</b>	Bayesian Learning and Optimisation
09:45 chair: Sophie Schirmer	Development of Few-Electron Si Quantum Dots for Use as Qubits				
10:00 Bio and Spin Systems		<b>Stephan Hoyer</b>	Coffee	<b>Sophie Schirmer</b>	Survey
10:15 Spectroscopy, Tomography & Beyond / Optimal Control of Uncoupled and Coupled Spins		Quantum Control of Light-Harvesting Systems	chair: Mark Balas	Coherent Control and Closing the Modelling-Simulation-Control-Identification Loop	Survey
10:30 Coffee					
11:00 <b>Device Modelling</b>	<b>Jim Fonseca</b>			<b>Steffen Glaser</b>	
11:15 chair: Lloyd Hollenberg	NanoHUB and NEMO5				
11:30 Lunch		<b>Paul Rees</b>	Coffee		
11:45 Diamond Based Single Molecule Magnetic Resonance Spectroscopy		<b>Jiaming Cai</b>	Lunch		
12:00 Informal meeting possible					
13:00 contact: Frank Langbein	<b>Guided tour of Banff Centre</b>			<b>Daniel Oi</b>	
13:30 Meet at BIRS 2nd floor lounge of Corbett Hall				Chair: T Schulte-Herbruegen	
13:45 <b>Group Photo: meet at front steps of Corbett Hall</b>					
14:00 <b>Erik Nielsen</b>		<b>Ilya Kuprov</b>		<b>Matthew James</b>	
14:15 The QCAD Framework for Quantum Device Simulation		Alg. and Software for Large-Scale Quantum Spin Dyn.Simulations		<b>Group 1 - Mark Balas</b>	Survey
14:30 <b>Suzey Gao</b>				<b>Group 2 - Daniel Burgarth</b>	Topics on System Identification
14:45 Semiclassical Poisson and Poisson-Schrodinger Solvers in QCAD				<b>Group 3 - Clemens Muller</b>	Topics on Control
15:00 Coffee				<b>Group 4 - Daniel Oi</b>	Topics on Particle Swarm Optimisation
15:30 <b>Rajib Rahman</b>					Coordinator: Frank Langbein
15:45 High Prec. Quantum Dev. Simulations with Atomistic TB					Tea and coffee items available in tea lounge
16:00 <b>BIRS</b>	Group discussion	<b>Group 1 - Suze Gao, Erik Nielsen</b>		<b>Group 1 - Ian Peterson</b>	Informal meetings possible
16:15 Check-in	Topics on Device Modelling, Simulation, Control	<b>Group 2 - Rajib Rahman</b>		<b>Group 2 - Matthew James</b>	contact: Frank Langbein
16:30 <b>Group 3 - Jim Fonseca</b>				<b>Group 3 - Barry Sanders</b>	
16:45 coordinator: Lloyd Hollenberg	<b>Group 4 - Thomas Schulte-Herbruegen</b>			<b>Group 4 - Edmond Jonckheere</b>	
17:00 Feedback	<b>Richard Muller</b>			<b>Group 4 - Stephan Hoyer</b>	
17:15 Device Modelling, Simulation, Control				<b>Group 2 - Paul Rees</b>	
17:30 Buffet Dinner				<b>Group 3 - Ilya Kuprov</b>	
17:45 Dinner				<b>Group 4 - Tomasso Calarco</b>	
18:00 <b>Martin Plenio</b>				<b>Group 1 - Stephan Hoyer</b>	
19:30 <b>Informal gathering: Discussions at TCPL Pavilion</b>		Meet at Corbett Hall Lounge on second floor		<b>Group 2 - Paul Rees</b>	
20:00 <b>Meet at Corbett Hall Lounge on second floor</b>				<b>Group 3 - Jim Fonseca</b>	
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