

2D QMM Workshop Apr. 25,26, 2018, Gaithersburg, MD

Wednesday 25th April			
8 AM	Registration and Continental Breakfast	2 PM	APM – Enrico Prati, IFN CRN, “Critical quantum chaos and room temperature effects in 1D arrays of P donors in silicon”
:15		:15	
:30		:30	
:45		:45	APM – Jon Wyrick, NIST, “Fabrication of atomic-precision dopant arrays in Si using STM-based hydrogen lithography”
9 AM	Welcome – Kent Rochford, ADLP, NIST	3 PM	
:15		:15	
:30		:30	Coffee Break
:45		:45	
10 AM	Plenary 1– Shashank Misra, Sandia, “Designing quantum materials, atom by atom”	4 PM	
:15		:15	Alternatives - Cheng Chin, Chicago: (experiment) cold atoms
:30		:30	
:45		:45	
11 AM	Plenary 2 – Gabe Aeppli, PSI, “Engineering quantum many-body physics”	5 PM	Alternatives – Alicia Kollar, Princeton: (Experiment) Superconducting TBD
:15		:15	
:30		:30	Alternatives – Sjaak van Diepen, TU Delft: (Experiment) Semiconductor TBD
:45		:45	
12 PM	Lunch	6 PM	
:15		:15	Shuttles back to hotel
:30		:30	Social Event sponsored by ScientaOmicron
:45		:45	
1 PM	Plenary 3 – Subir Sachdev, Harvard, “The disordered Hubbard model: from Si:P to the high temperature superconductors”	7 PM	
:15		:15	
:30		:30	
:45		:45	

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Thursday 26th April			
8 AM		2 PM	Breakout sessions (2:00 total)
:15	Continental Breakfast	:15	
:30		:30	
:45	Welcome (John Randall)	:45	
9 AM	APM - Ingmar Swart, Univ. Utrecht (Experiment), TBD	3 PM	Reports by breakout leaders
:15		:15	
:30		:30	
:45	Alternatives – Kaden Hazard, Rice, “Ultracold matter for quantum simulations: achievements, possibilities, and challenges”	:45	
10 AM	Alternatives – Norbert Linke, U. Maryland, “Quantum simulation with trapped atomic ions”	4 PM	Final session: Discussion and final comments
:15		:15	
:30		:30	
:45	Alternatives – Garnett Bryant, NIST, “Atom-based devices for photonics, quantum plasmonics and many-body physics”	:45	
11 AM	Lunch	5 PM	End
:15		:15	
:30		:30	
:45		:45	
12 PM	Perspective – Philip Phillips, UIUC, “Metamaterials from Correlated Disorder and non-local Electromagnetism”	6 PM	
:15		:15	
:30		:30	
:45		:45	
1 PM	Instructions for breakout sessions	7 PM	
:15		:15	
:30		:30	
:45		:45	