

Tutorials

Tuesday September 17, 2002

- 9:00–10:00 *Check-In/Light Breakfast (Hosted by IPAM)*
- 10:00–11:00 **Vwani Roychowdhury** (UCLA)
Quantum Computing
- 11:00–11:30 *Break*
- 11:30–12:30 **Achi Brandt** (Weizmann Institute of Science)
Multiscale Computational Methods
- 12:30–2:00 *Lunch (Hosted by IPAM)*
- 2:00–3:00 **James Gimzewski** (UCLA)
Local Probe Microscopes: Evolution and Revolution
- 3:00–3:30 *Break*
- 3:30–4:30 **Hong-Tzer Yau** (New York University/Courant Institute of Mathematical Sciences)
Asymptotic Solutions to Many-body Dynamics I: The Euler Equations
- 4:30–5:30 **Dimitri Vvedensky** (Imperial College, London, UK)
Epitaxial nanostructures across length and time scales
- 5:30–7:00 *Wine/Cheese Reception (Hosted by IPAM)*

Wednesday September 18, 2002

- 9:30–10:00 *Continental Breakfast*
- 10:00–11:00 **Vwani Roychowdhury** (UCLA)
On the Unconditional Security of QKD Schemes
- 11:00–11:30 *Break*
- 11:30–12:30 **Achi Brandt** (Weizmann Institute of Science)
Multiscale Computational Methods
- 12:30–2:00 *Lunch (on your own)*
- 2:00–3:00 **Hong-Tzer Yau** (New York University/Courant Institute of Mathematical Sciences)
Asymptotic Solutions to Many-body Dynamics II: Incompressible Navier-Stokes equations, viscosity and Green-Kubo formula
- 3:00–3:30 *Break*

(Wednesday schedule continued on next page)



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3:30–4:30 **Dimitri Vvedensky** (Imperial College, London, UK)
Epitaxial nanostructures across length and time scales

Thursday September 19, 2002

9:30–10:00 *Continental Breakfast*

10:00–11:00 **Vwani Roychowdhury** (UCLA)
On the Unconditional Security of QKD Schemes

11:00–11:30 *Break*

11:30–12:30 **Achi Brandt** (Weizmann Institute of Science)
Multiscale Computational Methods

12:30–2:00 *Lunch (on your own)*

2:00–3:00 **James Gimzewski** (UCLA)
Exploring Quantum and Nanomechanics of Single Molecules

3:00–3:30 *Break*

3:30–4:30 **Dimitri Vvedensky** (Imperial College, London, UK)
Epitaxial nanostructures across length and time scales

4:30–5:30 **Hong-Tzer Yau** (New York University/Courant Institute of Mathematical Sciences)
Asymptotic Solutions to Many-body Dynamics III: Quantum Dynamics in Random Potential, Kinetic and Mean-Field Limits

Friday September 20, 2002

9:30–10:00 *Continental Breakfast*

10:00–11:00 **Vwani Roychowdhury** (UCLA)
Quantum Computation and Information Theory

11:00–11:30 *Break*

11:30–12:30 **Vwani Roychowdhury** (UCLA)
Quantum Computation and Information Theory

12:30–2:00 *Lunch (on your own)*

2:00–3:00 **James Gimzewski** (UCLA)
Translation of Biochemical Recognition into Nanomechanical Action

3:00–12:00 *Conclusion*

