

CeNS Workshop: "Emerging Nanosystems - From Quantum Manipulation to Nanobiomachines", 25.09. - 29.09.2006, Venice International University

| Time | Monday 25. Sep 06 | Tuesday 26. Sep 06 | Wednesday 27. Sep 06 | Thursday 28. Sep 06 | Friday 29. Sep 06 |
|-------|---|--|--|--|--|
| 9:30 | Opening | - | - | - | - |
| 9:45 | Paul Hansma High speed atomic force microscopy and the molecular mechanics of bone fracture | Hermann E. Gaub Torturing molecules by AFM | Theodor W. Hänsch Towards a quantum laboratory on a chip | Ulrich B. Wiesner Nanohybrids and nanobiohybrids | Irmgard Frank Chemical reactions and dynamics in nanosystems: First-principles simulations |
| 10:30 | Thomas Basché Electronic excitation energy transfer between two single molecules | Kevin Hennessy Coupled excitons and photons in photonic nanocavities | David Bensimon Single molecule studies of chromatine remodelling factors | Jens Ebbecke Acoustic waves in semiconductor nanostructures | Eli Yablonovitch The impedance-matching predicament: A hurdle in the race toward nano-electronics |
| 11:15 | <i>Coffee break</i> | <i>Coffee break</i> | <i>Coffee break</i> | <i>Coffee break</i> | <i>Coffee break</i> |
| 11:45 | Fritz Keilmann Spectroscopic near-field microscopy with infrared frequency-combs | Thorsten Hugel Scrutinizing nanobiomachines with single-molecule fluorescence and force spectroscopy | Piet Brouwer Current-induced magnetization dynamics in nanoscale magnets | Stephanie Hoepfner Nanolithography and self-assembled monolayers - Platforms to assemble functional structures | Jochen Feldmann Nanocrystals for photonic applications: towards synthetic light harvesting complexes |
| 12:30 | <i>Lunch</i> | <i>Lunch</i> | <i>Lunch</i> | <i>Lunch</i> | <i>Lunch</i> |
| 14:30 | Gerhard Abstreiter Manipulating and controlling semiconductor quantum dots | Enrico Gratton Particle tracking in 3D: Chromatin structure and dynamics | Informal discussions | Justin E. Molloy Single molecule mechanical and optical studies: <i>in vitro</i> and inside live mammalian cells | <i>Departure</i> |
| 15:15 | Erik Winfree Algorithmic self-assembly of DNA | Harold G. Craighead Nanostructures for biomolecular analysis | | Thomas W. Ebbesen Surface plasmon photonics | |
| 16:00 | <i>Coffee break</i> | <i>Coffee break</i> | | <i>Coffee break</i> | |
| 16:30 | William M. Shih DNA-based molecular containers | Thomas Franosch Phase separation in driven non-equilibrium transport | | Vahid Sandoghdar On the coupling of a single emitter to photons | |
| 17:15 | Don C. Lamb Single molecule investigations: From protein dynamics to virus entry | Christoph F. Schmidt Eg5: a four-headed mitotic kinesin motor | | Andreas R. Bausch Physics of complex actin networks: from molecules to networks | |
| 18:00 | Welcome reception | <i>Dinner</i> | <i>Dinner</i> | <i>Dinner</i> | |
| 19:00 | | Poster Session I | | Poster Session II | |