

Thursday, 1 December 2011 (EW 015)

- 9:30 Coffee and welcome: Room EW 015
10:30 “**Non-Markovian effects in quantum transport**” (Clive Emary)
11:00 “**Strong coupling as a non-Markovian effect**”(Elena Del Valle)
11:30 “**Delay in Control and Synchronization**” (Thomas Dahms)
12:00 *Lunch-Break: Room EW 733*
15:30 Coffee and cookies (EW 015)
16:00 “**Quantum Kinetics of Multiple Exciton Generation in QDs**” (Franz Schulze)
16:30 “**Quantum kinetics of carrier-phonon interaction in QDs**” (Doris Reiter)
17:00 “**Fast fluctuations in the coherent excitation of QDs**” (Fabrice Laussy)

Friday, 2 December 2011 (EW 561)

- 11:00 “**Memory effects in QD gain spectra, status and problems**” (Michael Lorke)
11:30 “**Electron-phonon interaction in semiconductor QDs**” (Jens Förstner)
12:00 “**Real-time path integrals for the dynamics of strongly confined QDs**” (Martin Glässl)
12:30 “**Stochastic unravelling of interactions in molecular dynamics**” (Heiko Appelt)

13:00 *Snacks: Room EW 733*

Collaborative Research Center 910 “Control of self-organizing nonlinear systems: Theoretical methods and concepts of application”



Workshop on “Memory effects in solids”

Thursday, 01 to Friday, 02 December 2011,
Technische Universität Berlin
Eugene-Wigner Building, EW 015 and EW 561
Hardenbergstr. 36, 10623 Berlin

Guests are welcome!

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Alexander Carmele

Eckehard Schöll



Abstract:

Within this workshop, we want to discuss quantum systems, which are excited by either classical or non-classical light. We focus on different aspects of Memory effects. Hereby, we would like to discuss different methods to include those effects in the simulation, and limits of typical theoretical frameworks such as the equation of motion or the master equation approach.