Session 23, Mathematical aspects of semiconductor modeling and nano-technology

Thursday 19, Room 312

11:30-12:00	Quantum collisons in the Boltzmann equation via local exten- sions to Fermi's golden rule Christian Binghofer
12:00-12:30	A WENO solver for the transients of Boltzmann-Poisson sys- tem
	Chi-Wang Shu
12:30 - 13:00	A direct solver for 2D non-stationary Boltzmann-Poisson sys-
	tems for semiconductor devices
	Armando Majorana
15:30 - 16:00	The Boltzmann-Poisson system in semiconductors:Numerical
	simulations for Silicon and GaAs devices
	María José Cáceres Granados
16:00-16:30	Low-field limit for a nonlinear discrete drift-diffusion model
	Óscar Sánchez Romero
16:30 - 17:00	Non-linear transport in semiconductor multiquantum Wells
	doped with magnetic impurities
	Gloria Platero
17:30 - 18:00	Stochastic and deterministic switching dynamics in semicon-
	ductor superlattices
	Stephen Teitsworth
18:00-18:30	The half space problem for kinetic relaxation under a strong
	force field scaling
	Irene Martinez Gamba
Saturday 21, Room 312	
09:30-10:00	Recent progress in quantum hydrodynamic models for semi- conductors
	Peter Markowich

- 10:00–10:30 Quantum device simulations by Wigner equations Jing Shi
- 10:30–11:00 New advances in numerical micromagnetics simulations Carlos Javier García Cervera