



Department of Mathematics

5th Workshop on Kinetic Theory and Applications
Karlstad University, Sweden, 10 – 12 June 2007

Programme

June 10 Sunday

Room: 11D 227

14.00 – 15.00 LUNCH

Afternoon session

15.00 – 15.35 *A diffusion model for rarefied gas flows in a curved channel,*
K. Aoki (Kyoto)

15.45 – 16.20 *A Multigrid-Fourier Method for the Computation of Elastic Fields with*
Application to Heteroepitaxy, G. Russo (Catania)

16.30 – 17.05 *Stochastic Weighted Particle Method for a Two Phase Vapour Flow,*
S. Rjasanow (Saarbrücken)

19.00 – 23.00 CONFERENCE DINNER at Kungsgatan 6

June 11 Monday

Room: 11D 227

Morning session

- 09.30 – 10.05 *The Multiconfiguration time dependent Hartree Fock equations,*
C. Bardos (Paris)
- 10.10 – 10.45 *Propagation of smoothness for the Boltzmann kernel without angular cutoff*
and applications, L. Desvillettes (Paris)
- 10.45 – 11.10 Coffee break
- 11.10 – 11.45 *Generalization of Maxwell type models for the dissipative Boltzmann equation,*
I. Gamba (Austin, Texas)
- 11.50 – 12.25 *Kinetic models for economy,* G. Toscani (Pavia)
- 12.25 – 13.30 LUNCH

Afternoon session

- 13.30 – 14.05 *Kinetic problems in reactive gas mixtures,* G. Spiga (Parma)
- 14.10 – 14.45 *Quantum BGK models. Existence results in the slab,* A. Nouri (Marseille)
- 14.45 – 15.10 Coffee break
- 15.10 – 15.45 *Sharp bounds on $2m/r$ of general spherically symmetric static objects,*
H. Andreasson (Göteborg)
- 18.00 – 22.00 BOAT EXCURSION on Vänern

June 12 Tuesday

Room: 11D 227

Morning session

- 09.30 – 10.05 *On mode coupling in the Benard problem*, L. Arkeryd (Göteborg)
- 10.05 – 10.40 *Boundary value problems for pseudodifferential equations as a model for intracellular subdiffusion*, A. Heintz (Göteborg)
- 10.40 – 11.00 Coffee break
- 11.00 – 11.35 *Stability of the front under a Vlasov-Fokker-Planck dynamics*,
R. Marra (Rome)
- 11.35 – 12.10 *Displacement convexity and uniqueness of the front solution in some phase transition Problems*, R. Esposito (L'Aquila)
- 12.10 – 13.05 LUNCH

Afternoon session

- 13.05 – 13.40 *Chapman-Enskog and Multiple Times*, L. Söderholm (Stockholm)
- 13.40 – 14.15 *Brownian approximation and Monte Carlo simulation of the non-cutoff Boltzmann equation*, B. Wennberg (Göteborg)