



Division for Engineering Sciences,
Physics and Mathematics

4th Workshop on Kinetic Theory and Applications
Karlstad University, Sweden, 12 – 14 June 2005

Programme

June 12 Sunday

Room: 11D 227

14.00 – 15.00 LUNCH

Afternoon session

15.00 – 15.50 *Optimal transportation: theory and applications*, Y. Brenier (Paris)

16.10 – 16.50 *On a problem of Chowla and the Schrödinger density*,
K. Oskolkov (Columbia, SC)

16.55 – 17.35 *Mixed norms, multiplicative inequalities and embedding theorems*,
V. Kolyada (Karlstad)

19.00 – 23.00 CONFERENCE DINNER at Kungsgatan 6

June 13 Monday

Room: 11D 227

Morning session

- 09.30 – 10.05 *Convergence to a stationary state for the Kac equation with a force field,*
B. Wennberg (Göteborg)
- 10.05 – 10.40 *On gauge conditions and continuation criteria for the spherically
symmetric Einstein-Vlasov system,* H. Andreasson (Göteborg)
- 10.40 – 11.00 Coffee break
- 11.00 – 11.35 *To be announced,* M. Pulvirenti (Rome)
- 11.45 – 12.20 *On the derivation of the Boltzmann equation from the Schrödinger equation:
partial results,* R. Esposito (Rome)
- 12.30 – 13.35 LUNCH

Afternoon session

- 13.35 – 14.10 *Point-wise bounds for solutions of homogeneous Boltzmann equations,*
I. Gamba (Austin, Texas)
- 14.10 – 14.45 *Self-similarity and power-like tails in nonconservative kinetic models,*
G. Toscani (Pavia)
- 14.45 – 15.05 Coffee break
- 15.05 – 15.40 *BGK-type models for reactive gas mixtures,* R. Monaco (Turin)
- 15.40 – 16.15 *Time splitting schemes for the inelastic Boltzmann equation,*
S. Rjasanow (Saarbrücken)
- 18.00 – 22.00 BOAT EXCURSION on Vänern

June 14 Tuesday

Room: 11D 227

Morning session

- 09.30 – 10.05 *Cylindrical Couette flow of a vapor-gas mixture: A ghost effect in the fluid-dynamic limit*, K. Aoki (Kyoto)
- 10.05 – 10.40 *Hybrid Burnett equations. A new method of stabilizing*
L. Söderholm (Stockholm)
- 10.40 – 11.00 Coffee break
- 11.00 – 11.35 *Chebyshev spectral- S_N methods for the neutron transport*,
M. Azadzadeh (Göteborg)
- 11.35 – 12.10 *Geometric flows with boundary conditions. A convolution-thresholding approach*, A. Heintz (Göteborg)
- 12.10 – 13.05 LUNCH

Afternoon session

- 13.05 – 13.40 *Moment equations and hydrodynamics for dilute granular flows*,
G. Spiga (Parma)
- 13.40 – 14.15 *On Bose-Einstein condensation*, A. Nouri (Marseille)