



Division for Engineering Sciences,
Physics and Mathematics

2nd Workshop on Kinetic Theory and Applications
Karlstad University, Sweden, 1 – 3 September 2002

Programme

September 1 Sunday

Chairman: A.Nouri

- 15.00 – 15.10 **OPENING**, Christina Ullenius, Rector of Karlstad University
- 15.10 – 15.45 *Long-time asymptotics of some kinetic models of granular flows*, G.Toscani (Pavia)
- 15.55 – 16.30 *Existence and estimates of high energy tails for inelastic Boltzmann equation*, I.Gamba (Austin, Texas)
- 16.40 – 17.15 *Local and global equilibria of rarefied gases*, L.Desvillettes (Paris)
- 17.25 – 18.00 *Existence of constant mean curvature- and constant areal time foliations in T^2 symmetric spacetimes with Vlasov matter*, H.Andreasson (Göteborg)
- 19.00 DINNER at Kungsgatan 6

September 2 Monday Morning session

Chairman: G.Toscani

- 09.20 – 10.00 *Uniform rest term control and positivity for small mean free paths in a bifurcating stationary non-linear two-rolls system*, L.Arkerud (Göteborg)
- 10.10 – 10.50 *On a kinetic equation linked to the Compton effect*, A.Nouri (Marseille)
- 11.00 – 11.40 *Bifurcation of and ghost effect on the temperature field in the Bénard problem of a gas in the continuum limit*, Y.Sone (Kyoto)
- 11.50 – 12.30 *Half-space problem of condensing vapor flows in the presence of a noncondensable gas*, K.Aoki (Kyoto)

Afternoon session

Chairman: K.Aoki

- 14.00 – 14.40 *Nonlinear evolution of sound wave to Burnett order*, L.Söderholm (Stockholm)
- 14.50 – 15.30 *Numerical solution of the Boltzmann equation on the uniform grid*, S.Rjasanow (Saarbrücken)
- 15.40 – 16.20 *Spectral method for the time dependent, space non-homogeneous Boltzmann equation*, G.Russo (Catania)
- 17.00 BOATTRIP on Vänern

September 3 Tuesday

Chairman: Y.Sone

- 09.20 – 10.00 *On stationary and time dependent solutions to the linear Boltzmann equation*, R.Pettersson (Göteborg)
- 10.10 – 10.50 *On penetration of fractals by rarefied gases*, A.Heintz (Göteborg)
- 11.00 – 11.30 *Regularity theory for SHBE with cut-off*, C.Mouhot (Lyon)
- 11.40 – 12.20 *On the derivation of the linear Boltzmann equation from the periodic Lorentz gas*, B.Wennberg (Göteborg)