

Division for Engineering Sciences, Physics and Mathemathics

2<sup>nd</sup> 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.D.esvillettes (Paris)
- 17.25 18.00 Existence of constant mean curvature and constant areal timefoliations 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.Arkeryd (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-spaceproblem 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

09.20 - 10.00 On stationary and timedependent solutions to the linear Boltzmann equation, R.Pettersson (Göteborg)

Chairman: Y.Sone

- 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)