Programme

June 19 Monday

**Morning session**

Room: 21A 342 (Eva Eriksson)

Chair: B. Wennberg

09.40 – 09.50 Opening

09.50 – 10.25 *Quantization of probability densities: a gradient flow approach*, F. Golse (Paris)

10.25 – 11.00 *Hopf-Cole transformation*, T.-P Liu, (Taipei/Stanford)

11.00 – 11.20 Coffee break

11.20 – 11.55 *Coarse-graining of collective dynamics models*, P. Degond (London)

11.55 – 12.30 *Kinetic-based models for tumor-immune system competition*, M. Groppi (Parma)

12.30 – 13.50 LUNCH

**Afternoon session**

Chair: Y. Wondmagegne

13.50 – 14.25 *Fokker-Planck description of socio-economic phenomena*, G. Toscani (Pavia)

14.25 – 15.00 *Solutions to the spatially inhomogeneous non-cutoff Kac equation*, T. Yang (Hong Kong)

15.00 – 15.20 Coffee break

15.20 – 15.55 *On consistent BGK models for gas mixtures*, A. Bobylev (Moscow)

18.00 – 21.30 BOAT EXCURSION on Vänern
June 20 Tuesday
Room: 21A 342 (Eva Eriksson)

Morning session
Chair: L. Söderholm

09.15 – 09.50  Shock wave structure for polyatomic gases with large bulk viscosities, K. Aoki (Taipei/Tainan)

09.50 – 10.25  Macroscopic closures of kinetic equations beyond the monatomic gas, G. Spiga (Parma)

10.25 – 11.00  Modelling and numerical study of the polyatomic bi-temperature Euler system, S. Brull (Bordeaux)

11.00 – 11.20  Coffee break

11.20 – 11.55  Continuum limit for metamaterials: an inverse problem, M. Pulvirenti (L'Aquila)

11.55 – 12.30  Derivation of the linear Boltzmann-Vlasov equation from particle system, C. Saffirio (Zürich)

12.30 – 14.00  LUNCH

Afternoon session
Chair: H. Andreasson

14.00 – 14.35  Bose condensates in interaction with excitations; a coupled Gross-Pitaevskii and quantum-kinetic model, L. Arkeryd (Gothenburg)

14.35 – 15.10  On some quantum kinetic equations related to anyons, A. Nouri (Marseille)

15.10 – 15.40  Coffee break

15.40 – 16.15  Common features between the quantum Boltzmann equation cold regimes and the wave turbulence model for stratified flows, I. Gamba (Austin, Texas)

16.15 – 16.50  Influence of boundary geometry on the fluid-dynamic quantities near the boundary, S. Takata (Kyoto)

19.00 –  CONFERENCE DINNER at Frost
June 21 Wednesday

Room: 21E 205

Morning session

Chair: M. Asadzadeh

09.15 – 09.50 Kinetic modelling and numerics of strongly magnetized tokamak plasmas with mass disparate particles. The electron Boltzmann relation, C. Negulescu (Toulouse)

09.50 – 10.25 The Vlasov-Poisson plasma with infinite charge: An attempt to modeling a magnetic shield, S. Caprino (Rome)

10.25 – 11.00 Electron acceleration by plasmic waves caused by a laser pulse, I. Potapenko (Moscow)

11.00 – 11.20 Coffee break

11.20 – 11.55 On a three dimensional vision based collision avoidance model, F. Filbet (Toulouse)

11.55 – 12.30 Design of discrete velocity models, H. Babovsky (Ilmenau)

12.30 – 13.40 LUNCH

Afternoon session

Chair: M. Vinerean

13.40 – 14.15 Stochastic and deterministic solution of the Boltzmann equation, S. Rjasanow (Saarbrücken)

14.15 – 14.50 Onsager Conjecture in bounded domain with boundaries, C. Bardos (Paris)

14.50 – 15.00 Closing remarks

15.15 – Coffee at the Department of Mathematics