

One-day Meeting on

Theory and Numerics in Kinetic Theory

Parma - December 13th 2019
Aula B - Plesso di Matematica
Dipartimento di Scienze Matematiche, Fisiche e Informatiche
Università di Parma

Timetable

9.30 – 10.00 Opening

10.00 – 10.40

K. Aoki - National Cheng Kung University & visiting at Università di Parma

A kinetic model for a polyatomic gas with temperature-dependent specific heats and its application to shock-wave structure

10.40 – 11.20

M. Pulvirenti - Università di Roma *La Sapienza*

A stochastic particle system for the Boltzmann equation in a stationary regime

11.20 – 11.40 Coffee Break

11.40 – 12.20

G. Toscani – Università di Pavia

Statistical description of human addiction phenomena

12.20 – 13.00

G. Dimarco – Università di Ferrara

The Aw-Rascle traffic model: Enskog-type kinetic derivation and generalisations

13.00 – 14.30 Lunch

14.30 – 15.10

A. Mentrelli – Università di Bologna

Shock structure behaviours in Extended Thermodynamics with higher order closures

15.10 – 15.50

S. Lorenzani – Politecnico di Milano

Microchannel flow applications of a linearized kinetic Bhatnagar-Gross-Krook-type model for inert gas mixtures with general intermolecular forces

15.50 – 16.30

A. Frezzotti – Politecnico di Milano

Numerical study of the evaporation of a liquid film in contact with a non-ideal vapor

16.30 – 17.00 Closing and coffee