INdAM International Workshop on Nonlinear Hyperbolic Problems
a perspective view on conservation laws

Monday, May 28th

9:20–10:20  Welcome
10:20–11:20 Guy Metivier, Stability of shock waves, I
11:20–12:20 Benedetto Piccoli, Traffic flow on networks
12:20–14:00  Lunch
14:00–15:00 Yann Brenier, A Hilbertian approach to hyperbolic non linear conservation laws
15:00–15:40 Ingenuin Gasser, Modeling, analysis and simulations of a tunnel fire model
15:40–16:00  Coffee break
16:00–17:00 Stefano Bianchini, Riemann problem for hyperbolic system of conservation laws with boundary, I
17:00–18:00 Tai–Ping Liu, Generalized Riemann Problem

Tuesday, May 29th

9:20–10:20 Bjorn Engquist, High resolution shock capturing methods, I
10:20–10:40  Coffee break
10:40–11:20 Michael Westdickenberg, Finite Energy Solutions to the Isentropic Euler equations with geometric effects
11:20–12:20 Angela Stevens, Orientational aggregation and pattern formation due to local cell interaction
12:20–14:00  Lunch
14:00–15:00 Stefano Bianchini, Riemann problem for hyperbolic system of conservation laws with boundary, II
15:00–15:40 Andreas Münch, Shocks in thin films
15:40–16:00  Coffee break
16:00–17:00 Guy Metivier, Stability of shock waves, II
17:00–18:00 Denis Serre, Shock reflection for a Chaplygin gas
Wednesday, May 30th

9:20–10:20 **Stefano Bianchini**, Riemann problem for hyperbolic system of conservation laws with boundary, III

10:20–10:40 *Coffee break*

10:40–11:20 **Gilles Carbow**, Relaxation approximation of the Kerr model for the impedance initial–boundary value problem

11:20–12:20 **Kevin Zumbrun**, New vistas in stability of viscous shock and detonation waves

12:20–14:20 *Lunch*

14:00–15:00 **Guy Metivier**, Stability of shock waves, III

15:00–16:00 **Athanasios E. Tzavaras**, Transport equations and oscillations in hyperbolic equations and systems of two conservation laws

16:00–16:20 *Coffee break*

16:20–17:20 **Bjorn Engquist**, High resolution shock capturing methods, II

Thursday, May 31st


10:20–10:40 *Coffee break*

10:40–11:20 **Volker Elling**, Regular reflection and the sonic criterion

11:20–12:20 **Rosa Donat**, A penalization technique for compressible fluid flow

12:20–14:00 *Lunch*

14:00–15:00 **Bjorn Engquist**, High resolution shock capturing methods, III

15:00–16:00 **Helge Holden**, Conservative and dissipative solutions of the Camassa–Holm equation

16:00–16:20 *Coffee break*

16:20–17:20 **Stefano Bianchini**, Riemann problem for hyperbolic system of conservation laws with boundary, IV

Friday, June 1st

9:20–10:20 **Bjorn Engquist**, High resolution shock capturing methods, IV

10:20–10:40 *Coffee break*

10:40–11:20 **Kristian Jenssen**, Systems of 1-D conservation laws with geometric constraints

11:20–12:20 **Constantine Dafermos**, Hyperbolic balance laws with dissipation