

# Programm : Monday morning

- 8h45-9h00 Registration
- 9h00-9h05 Introduction
- 9h05-10h05 Eric Sonnendrücker (Munich, Germany) :  
Noise reduction strategies for PIC simulations with collisions
- 10h05-10h25 Coffee break
- 10h25-11h25 Nicolas Besse (Nancy) :  
Asymptotic and spectral analysis of the gyrowaterbag integrodifferential operator in toroidal geometry.
- 11h25-12h25 Mihai Bostan (Marseille) :  
Gyrokinetic theory for collisional plasmas

Chairman : Philippe Helluy

Lunch at "Haut Carré".

- 14h00-15h00 **Francis Filbet (Lyon)** :  
Conservative and non-conservative methods based on Hermite/WENO interpolation for Vlasov type equations.
- 15h00-16h00 **Manuel Torrilhon (Aachen, Germany)** :  
Smooth Shock Wave Profiles with Maximum Entropy Gas Dynamics
- 16h00 **Coffee break + Discussions + Poster session**

Chairman : Pierre Charrier

- **18h00 : Visit of Bordeaux**

Meeting point at place des Quinconces in front of "Office du tourisme".

With tramway : Take tramway B direction : Claveau. Stop at place des Quinquonces.

- **Wine taste and Tapas**

Wine and Soul : 23 rue du Couvent

- 9h00-10h00 **Vladimir Tikhonchuk (Bordeaux)** :  
Transport of particles in the high energy density physics
- 10h00-10h20 **Coffee break**
- 10h20-11h20 **Jean-Pierre Chièze (CEA Saclay)** :  
Some trends in numerical astrophysics
- 11h20-12h20 **Robert Kingham (Imperial College, UK)** :  
A Vlasov-Fokker-Planck–PIC Hybrid Code for Simulating Fast  
Electron Transport

Chairman : **Antoine Bourgade**

12h20 **Lunch at “La Brasserie du 7<sup>eme</sup> art”.**

- 14h00-15h00 **Bruno Després (Paris 6)** :  
Construction of hierarchies of reduced MHD models in Tokamak geometry
- 15h00-16h00 **Boniface N'konga (Nice)** :  
Stabilized finite element for MHD with applications to magnetic confinement fusion

Chairman : Vladimir Thichhonchuck