

COSMIS : Kick-off Meeting

Wednesday room L371 (ex T6) third floor at the physic department of the ENS

Thursday « salle de direction » 29 rue d'Ulm TBC

Welcome and presentation of COSMIS

10h-10h20

P. Hennebelle, A. Marcowith, E. Audit, A. Decourchelle
Structure, expertise and Goals

Cosmic rays

10h20-10h40 Isabelle Grenier

Recent Fermi results on cosmics abundances

10h40-11h Vincent Tatischeff

Tracing low-energy cosmic rays with X-
and gamma-rays

11h-11h30 coffee break

11h30-11h50 Alexandre Marcowith

Cosmic ray propagation in the interstellar medium

11h50-12h10 Stefano Gabici

Acceleration of cosmics-rays in supernovae remnants

12h10-12h30 Marco Padovani

Cosmic ray ionisation of molecular clouds

12h30-14h Lunch

Turbulence in the ISM

14h-14h20 Edith Falgarone

intermittency of interstellar turbulence: from 30pc to
milliparsec scales

14h20-14h40 Edouard Audit

Confrontation between isothermal and 2-phase turbulence

14h40-15h Patrick Hennebelle

Formation of molecular clouds and filaments

15h-15h20 Sébastien Fromang

Impact of dissipation on MHD turbulence in disks

15h20-15h50 Coffee Break

15h50-17h30 Discussion:

Cosmic, turbulence with and without cosmic. What to do ? How ?

Chemistry

10h00-10h20 Maryvonne Gérin

Probing the cosmic ray ionisation rate with molecular line observations.

10h20-10h40 Pierre Lesaffre

Chemistry in shocks

10h40-11h François Lévrier

UV driven chemistry in simulations of the ISM

11h-11h30h Coffee break

11h30-12h30 Discussion

Coupling between chemistry, turbulence and cosmics

12h30-14h Lunch

Supernovae Remnants

14h-14h20 Anne Decourchelle

Supernovae Remnants and their influence on the ISM

14h20-14h40 Carlos Vigh

Dynamics of supernovae remnants

14h40-15h Daria Kosenko

Modeling cosmic-ray acceleration in supernova remnants using two-fluid approach

15h-15h30 Coffee Break

15h30-17h Discussion

Supernovae, cosmics and turbulence

What is needed ?