

Agenda of the School on Exploiting the Herschel and Planck data (2013)

April 15 to 19, 2013

Monday

9:00 Welcome

9:15 Lecture 1: Herschel/Planck - from the design to the key points for data analysis

30' Planck **Jean-Loup Puget (IAS)**

45' Herschel **Matt Griffin (Cardiff University)**

30' Discussion

End 11:00

11:15 Lecture 2 : Astrophysical components & component separation methods

30' Astrophysical components : **François Boulanger (IAS)**

20' Mathematical methods : **Jean-Luc Starck (AIM, CEA)**

25' Discussion

End 12:30

Afternoon hands-on: general introduction to Planck data handling, issues of data processing and various astrophysical components.

Organiser: **Jonathan Aumont (IAS)**

Tuesday

9h Lecture 3 : Cosmology

45' How to get the cosmo parameters?

Olivier Dore (JPL)

45' How to go to the likelihood function?

Karim Benabed (IAP)

30' Discussion

End 11h00

11h15 Lecture 4 : Polarization

45' Polarization : **Nicolas Ponthieu (IPAG)**

30' Discussion

End 12h30

Afternoon hands-on : general introduction to Herschel Imaging data handling, issues of data processing.

Organiser: **Bruno Altieri (HSC, ESA)**

Wednesday

9h Lecture 5 : Galaxies and Large Scale Structure

45' Overview of galaxies, cosmological evolution : **David Elbaz (AIM, CEA)**

30' SEDs, models, components : **Karl Gordon (STSCI, Baltimore)**

30' Discussion

End 10h45

11h00 45' Correlation of CIB : **Olivier Dore (JPL)**

30' Discussion

End 12h15

Afternoon hands-on: Extrating structures and building SED from images
Organisers: **Frederic Galliano (AIM, CEA) & Emeric Le Floc'h (AIM, CEA)**

Thursday

9h Lecture 6 (two days) , Physico-chemistry of the ISM and star formation

30' Structure of the ISM : **Marc-Antoine Miville-Deschênes (IAS)**

30' Energetics of the ISM : **Olivier Berné (IRAP)**

30' Discussion

End 10:30

10:45 45' Where do the molecules come from ? **Javier Goicoechea (CSIC/INTA)**

30' Discussion

End 12:30

Afternoon hands-on: two sessions in parallel :

1. HIFI data & PDR models, Organiser: **David Teyssier (ESA)**

2. PACS & SPIRE spectra & models, Organiser: **Jeronimo Bernard-Salas (IAS)**

Friday

9h Lecture 6

60 ' Star formation and relation with the magnetic field :

Philippe André (AIM, CEA)

30' Discussion

End 10:30

10:45 75' Astrochemistry, towards molecular complexity :

Maryvone Gerin (LERMA, Observatoire de Paris)

30' Discussion

End 12:30

Afternoon hands-on: Same as Thursday