

ESLAB 2013: The Universe as seen by *Planck*

An international conference dedicated to an in-depth look at the initial scientific results from the Planck mission.

*ESA/ESTEC, Noordwijk (The Netherlands), 2-5 April 2013
<http://congrexprojects.com/13a11>*

First Announcement (9 August 2012)

Aims and scope

The objective of the conference is to present and discuss the initial science results from [Planck](#), ESA's mission to map the anisotropies of the Cosmic Microwave Background. It is the first scientific forum where these results will be addressed, following *Planck's* first major release of data products and scientific papers in early 2013. It will cover both cosmology (based on analysis of the Cosmic Microwave Background) and astrophysics (based on analysis of foreground emission sources).

Context

The *Planck* satellite was launched on 14 May 2009, and has been surveying the sky continuously since August 2009. The nominal duration of the mission was completed in November of 2010, but *Planck* still continues to gather data. Data processing has been progressing and a first set of cosmological-grade data products will be released to the astronomical community in early 2013. These products will consist mainly of temperature maps of the whole sky at nine frequencies between 30 GHz and 857 GHz, which allow us to extract a map of the temperature anisotropies of the Cosmic Microwave Background, as well as maps of many astrophysical foregrounds. The latter most importantly include synchrotron, free-free and dust emission from the Milky Way, radio and far-infrared emission from external galaxies, the characteristic signatures due to the Sunyaev-Zeldovich effect in clusters of galaxies, and the Cosmic Infrared Background. The *Planck* data therefore provide for an extremely broad range of cosmological and astrophysical science.

Format

Invited plenary presentations by members of the *Planck* Collaboration will describe all the major scientific results published in parallel with the release of the data products. Contributed talks and posters on related topics will be solicited from the community, especially those which highlight uses of the data products from *Planck* and other closely related experiments. Part of the conference will be devoted to parallel sessions on specialised topics where details can be discussed at greater length.

A helpdesk will be available to introduce participants to the Planck Legacy Archive and the use of the Planck data products.

Venue

The conference will be held on 2 – 5 April 2013 at the European Space Technology Centre (ESTEC) of the European Space Agency in Noordwijk (The Netherlands) – the site from which the Planck project was nurtured and developed into a successful satellite in orbit. The exact location can be found at http://www.esa.int/SPECIALS/ESTEC/SEMBAJ6K56G_0.html .

Scientific Organising Committee

M. Bersanelli
R. Bond
F. R. Bouchet
C. Cesarsky
R. Davies
G. De Zotti
G. Efstathiou
K. Górski
J.-M. Lamarre
C. Lawrence
N. Mandolesi
H.-U. Norgaard-Nielsen
B. Partridge
J.-L. Puget
R. Rebolo
R. Sunyaev
J. Tauber (Chair)
S. White
A. Zacchei

Local Organising Committee

C. Bingham
L. Fauvet

R. Leonardi
J. Tauber

Preliminary Schedule

Pre-registration: 15 October – 1 December
Early registration: 10 December 2012 - 1 March 2013
2nd Announcement and Call for papers: 1 November
Abstract submission period: 1 November - 10 January 2013
Notification of acceptance: 08 February 2013
Issue preliminary programme: 15 February 2013
Issue final programme: 15 March 2013.

Note: Considering the high interest foreseen and logistical limits on the total number of participants (~400), it is recommended to pre-register. The registration conditions and periods may be adapted depending on the response to pre-registration. Registration will be limited once total capacity has been reached. To accommodate overflow, the plenary sessions will be telecast to a limited number of external sites.

For further information, please contact esa.conference.bureau@esa.int.