



**Third Announcement with Final Program  
Herschel Open Time Key Program Workshop**

**Organised by the Herschel Science Centre (HSC)**

**Co-sponsored by the NASA Herschel Science Center (NHSC) and supported by the Herschel Principal Investigator (PI) Consortia (SPIRE, PACS, and HIFI)**

**Scientific Organisation: Herschel Science Team**

**Local Organisation: Herschel Science Centre**

**Venue: 20-21 February 2007, in ESTEC, Noordwijk, The Netherlands**

### **Background**

The Herschel Space Observatory (aka Herschel) is the next major astronomical observatory in the ESA science program. Herschel is currently planned to be launched in 2008, and will offer three years of routine science operations for the astronomical community, commencing approximately six months after the launch.

Herschel will target the far infrared and submillimetre universe and is intended to be a facility for the entire astronomical community. Approximately two thirds of the Herschel time available for conducting astronomical observations is open time, which will be allocated to the community through a traditional competitive proposal process.

A major fraction of the total observing time will be dedicated to so-called Key Programs. These programs should have the following characteristics:

- exploit unique Herschel capabilities to address (an) important scientific issue(s) in a comprehensive manner,
- require a large amount of observing time to be used in a uniform and coherent fashion, and
- produce a resulting well characterized dataset of high archival value.

It is clear that the scientific motivation for an observing programme needing a particularly large amount of observing time has to be particularly high and well motivated. The resulting dataset should be likely to be used by a broad community for a number of investigations of high scientific merit.

The Announcement of Opportunity (AO) for Key Program observing proposals is to be issued on 1 February 2007, and the deadline of the Open Time Key Program proposal submission is set for 25 October 2007. The reserved observations of the Guaranteed Time Key Programs will be officially communicated on 5 July 2007, but the preliminary program contents will be broadly known and communicated by the time of the workshop.

### **Workshop Objectives**

The goal of this workshop is to advertise the Herschel Key Program AO to the general scientific community, and to encourage participation. More specifically ESA wants to maximise community involvement and response to the AO, ideally putting every astronomer who would like to propose in a position to do so, in order to facilitate the greatest possible achievable science return and impact of Herschel.

A specific objective is a dedicated attempt to attract the part of the astronomical community which does not necessarily feel as 'belonging' to the Herschel or even the (far) infrared or submillimetre communities.

This is proposed to be done by providing the workshop participants with detailed information on the imaging and spectroscopic capabilities of Herschel, general information about the mission, the AO, and the Guarant-



ted Time Key Programs, and furthermore by providing a forum for the community to present their ideas, for communication and an opportunity to interact directly with members of the HSC, NHSC, the PI consortia, and the Herschel Science Team.

The specific objectives are:

- Inform the general astronomical community on the exciting scientific opportunities offered by Herschel in the area of far infrared and submillimetre imaging and spectroscopy,
- Provide insight in and detailed information on the Herschel imaging and spectroscopic capabilities and characteristics,
- Provide preliminary information about the Guaranteed Time Key Program observing programs under preparation for submission,
- Provide putative Open Time Key Programs proposers with an opportunity to present ideas for Open Time Key Programs,
- Provide putative Open Time Key Programs proposers with details in the area of astronomical observing templates, observation planning, data reduction, and data products and archiving,
- Provide a forum where putative Open Time Key Program participants can meet each other and exchange ideas, and interact directly with members of the HSC, NHSC, the PI consortia, and the Herschel Science Team.

All presentations and posters will be made available through the HSC website immediately after the event, there will be no formal workshop proceedings.

## Registration

Please register your participation early in order to ensure a place; there will be a practical limit to the number of participants that can be accommodated. For online registration and latest information, please follow the workshop link from the HSC webpage at <http://herschel.esac.esa.int/> or <http://www.rssd.esa.int/Herschel/>.

There are currently (15 February 2007) 275 registrations, since some time the venue is full with a waiting list.

There will be no registration fee, the HSC will bear the costs of organising the workshop. Personal costs of participation, including travelling, hotel, meals, etc will have to be borne individually. For US-based prospective participants information regarding potential support will be made available by the NHSC on their website at <http://www.ipac.caltech.edu/Herschel/nhsc.shtml>.

Very welcome!



## Workshop agenda

The agenda of the workshop is as follows:

### 20 February 2007

- 08:00 Buses leave from Noordwijk hotels for ESTEC
- getting badges at ESTEC gate
- 08:00 Registration in the ESTEC conference centre open
- poster mounting
- 09:20 Welcome and practical information - Göran Pilbratt

### Session: Herschel and GT programmes - Chair: Ana Heras

- 09:30 Herschel mission overview and the Key Programme AO - Göran Pilbratt
- 10:15 HIFI instrument and GT programmes - Thijs de Graauw
- 11:00 *coffe/tea break in the conference centre*
- 11:30 PACS instrument and GT programmes - Albrecht Poglitsch
- 12:15 SPIRE instrument and GT programmes - Matt Griffin
- 13:00 *lunch in the ESTEC canteen on personal basis*

### Session: Poster sessions - Chair: Bruno Altieri

- 14:00 GT Key Program posters attended - GT poster presenters
- the GT Key Programmes will have been presented in the morning session
  - time for ad-hoc splinter sessions
- 15:30 *coffe/tea break in the conference centre*
- 16:00 Short 'poster-pops' for OT Key Program posters, then posters attended - poster presenters
- 'poster-pops' are 1-minute 1-slide presentations of selected posters
  - time for ad-hoc splinter sessions
- 17:30 *social event in the conference centre (we are too many for the Space Expo)*

### Session: Pre-dinner talk - Chair: Göran Pilbratt

- 18:30 Pre-dinner talk: The infrared universe as seen by Spitzer, and beyond - Mike Werner
- 19:30 Buses leave ESTEC for Noordwijk hotels



**21 February 2007**

- 08:00 Buses leave from Noordwijk hotels for ESTEC
- 08:00 Registration in the ESTEC conference centre open
- poster viewing
- 09:00 Welcome and practical information - Göran Pilbratt

**Session: Herschel observation planning - Chair: Pedro Garcia-Lario**

- 09:10 SPIRE point source and jiggle-map observations - Sarah Leeks
- 09:30 SPIRE scan-map observations - Tim Waskett
- 09:50 SPIRE FTS observations - Ed Polehampton
- 10:10 PACS photometry and photometric mapping - Bruno Altieri
- 10:30 Line spectroscopy and spectroscopic mapping with PACS - Eckhard Sturm
- 10:50 *coffe/tea break in the conference centre*
- 11:20 Range spectroscopy and SEDs with PACS - Joris Blommaert
- 11:40 SPIRE/PACS parallel mode - Roland Vavrek
- 12:00 Intro to HIFI observing modes and the HIFI 'spectral scan' AOT - David Teyssier
- 12:20 The HIFI 'single point observations' AOT - Anthony Marston
- 12:40 The HIFI 'mapping observations' AOT - Jesus Martin-Pintado
- 13:00 *lunch in the ESTEC canteen on personal basis*

**Session: ALMA and poster session - Chair: Anthony Marston**

- 14:00 ALMA presentation - Robert Laing
- recommendation from ESA-ESO working group
- 14:30 Short 'poster-pops' for OT Key Program posters, then posters attended - poster presenters
- 'poster-pops' are 1-minute 1-slide presentations of selected posters
  - time for ad-hoc splinter sessions
- 16:00 *coffe/tea break in the conference centre*
- 16:30 Wrap-up/questions-and-answers/community feedback session - Göran Pilbratt
- 17:00 Workshop end