

Herschel 10 years after launch: science and celebration

ESA/ESAC, Madrid, 13-14 May 2019

The workshop will start at 13:30 hours on 13 May, and finish by 18:00 hours on 14 May 2019.

Compared to the draft programme posted on 7 April 2019 we have lost two speakers (Carlotta Gruppioni and Carlos Eiroa, who both unfortunately have been forced to cancel their attendance) and a few people have offered to give slightly shorter talks. Note: Times in the programme include time for discussion, 5 min for the 30 min talks, and 3 min for the shorter talks.

We will want to post all talks given in the meeting on the meeting webpage.

Participants can arrive to ESAC at any time in the morning on 13 May, the room is available from 09:00 hours onwards. You can have a quick lunch in the ESAC canteen (on your own cost) from 12:30 hours.

You fly to Madrid-Barajas Airport (MAD). The easiest is to take a taxi to ESAC on arrival.

Tip: In Madrid, book a hotel close to Plaza de España.

Getting to ESAC: http://www.esa.int/About_Us/ESAC/Getting_to_ESAC

FINAL FINAL FINAL PROGRAMME

Updated on 10 May 2019

13 May 2019 – venue room D1/D2

Session 0 Preamble

13:30-13:35 Pedro García-Lario: Welcome to ESAC

13:35-13:45 Arvind Parmar: Welcome to the ‘*Herschel 10 years after launch: science and celebration*’ workshop

13:45-14:05 Göran Pilbratt: Evolution of Herschel science objectives from initial ideas to the launch (I)

Session 1 Extragalactic 1

14:05-14:35 Dieter Lutz: Herschel extragalactic deep surveys: Results and legacy (I)

14:35-14:55 Raphael Shirley: The Herschel Extragalactic Legacy Project (HELP); the final word on Herschel extragalactic fluxes?

14:55-15:15 William Pearson: Beating Herschel's Confusion limit to explore the Galaxy Main Sequence

15:15-15:35 Peter Barthel: Herschel and active galaxies (I)

15:35-15:50 Enrica Bellocchi: Large scale (pc) mechanical heating in the nearby AGN-SB composite galaxy NGC 4945

15:50-16:20 *coffee*

Session 2 **Missions 1**

16:20-16:50 Peter Roelfsema: The SPICA mission, science and its instruments (I)

Session 3 **Star Formation 1**

16:50-17:20 Philippe André: Herschel observations of the filament paradigm for star formation: Where do we stand? (I)

17:20-17:40 Mayra Osorio: The Herschel Orion Protostar Survey (HOPS) @ 10 Years

17:40-18:00 Stefano Pezzuto: The Perseus star-forming region before and after Herschel

18:00-18:20 Arnold Benz: EUV and X-ray Irradiation in Star Forming Regions

18:30-19:15 *Bus from ESAC to Plaza de España, Madrid*

20:30- *Dinner in Restaurante Lateral, Paseo de la Castellana 42, Madrid for those who want to join: <https://www.lateral.com/en/restaurants/castellana42/>
Flat rate €30 at your own expense, to be paid at the time of registration in ESAC.*

14 May 2019 – venue room D1/D2

08:30-09:15 *Bus from Plaza de España, Madrid to ESAC*

Session 4 **Star Formation 2**

09:20-09:50 Sergio Molinari: The Milky Way as a star formation engine (I)

09:50-10:05 Veronica Roccatagliata: Star formation in 3D: synergy between Herschel and Gaia

10:05-10:25 Derek Ward-Thompson: Herschel-SCUBA2 Synergies – A 10-year Perspective

10:25-10:55 *coffee*

Session 5 **Interstellar medium/Evolved stars**

10:55-11:25 Maryvonne Gerin: Interstellar Hydrides with Herschel: from the 20th to the 21st century (I)

11:25-11:50 José Cernicharo: Herschel observations of evolved stars

Session 6 **Water/Solar system**

11:50-12:20 Ted Bergin: The Herschel view on water in star and planet formation (I)

12:20-13:20 *lunch*

- 13:20-13:50 Paul Hartogh: Herschel observations of water in the solar system (I)
13:50-14:10 Miriam Rengel: Tracing the Gas Composition of Titan's atmosphere with Herschel and ground-based telescopes

Session 7 Missions 2

- 14:10-14:40 Jan Tauber: Planck – the ‘other side’ of the Herschel/Planck Project – and its scientific connections to Herschel (I)

14:40-15:30 Celebration – Herschel (and Planck) launch liftoff 10 years ago at 15:12

Session 8 Extragalactic 2

- 15:30-16:00 Eckhard Sturm: Extragalactic molecular outflows (I)
16:00-16:20 Dimitra Rigopoulou: Intermediate redshift ultraluminous infrared galaxies: a new population unveiled by Herschel or more of the same?
16:20-16:40 Tanio Diaz-Santos: The interstellar medium properties of nearby luminous infrared galaxies
16:40-17:00 Clive Tadhunter: The Herschel view of the cool ISM contents of quasar host galaxies: a new probe of triggering mechanisms

Session 9 Missions 3

- 17:00-17:20 Hans Zinneker: Herschel-Sofia complementarity
17:20-17:50 Margaret Meixner: The Origins Space Telescope: a NASA Decadal 2020 Mission Concept (I)
17:50-18:00 Göran Pilbratt: Final words

Posters

- Maja Kaźmierczak-Barthel: Do you miss Herschel? - Use SOFIA!
Miriam G. Santa-Maria: The Herschel spectroscopic view toward Sgr A*