



→ THE UNIVERSE EXPLORED BY HERSCHEL

15-18 October 2013

ESA/ESTEC, Noordwijk, The Netherlands

An international symposium dedicated to presenting, discussing, and taking stock of the scientific breakthroughs from the Herschel Space Observatory to date, and with a view towards the future

Science Organising Committee

Peter Barthel
José Cernicharo
Pierre Encrenaz
Jacqueline Fischer
Matt Griffin
Paul Harvey
Martin Harwit

Frank Helmich
Leo Metcalfe
Tom Phillips
Göran Pilbratt
Albrecht Poglitsch
Laurent Vigroux
Christoffel Waelkens

Local Organising Committee

Clare Bingham
Göran Pilbratt
Congrex - ESA Conference bureau

The Universe Explored by Herschel

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ESA-ESTEC

Noordwijk, The Netherlands

Programme Book

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COMMITTEES

Scientific Organising Committee (SOC)

The Herschel Science Team constitutes the SOC:

Peter Barthel
José Cernicharo
Pierre Encrenaz
Jacqueline Fischer
Matt Griffin
Paul Harvey
Martin Harwit
Frank Helmich
Leo Metcalfe
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Laurent Vigroux
Christoffel Waelkens

Local Organising Committee (LOC)

The LOC consists of:

Clare Bingham
Göran Pilbratt
Congrex - ESA Conference Bureau

SPONSOR



GENERAL INFORMATION

Dedicated Conference Shuttle

The conference organisers have arranged for shuttles to transfer participants from Noordwijk hotels to ESTEC and back again on each day. There are no transfers foreseen for Leiden hotels.

The bus schedule is available at the conference desk.

Taxi / Getting to the airport

In order to reserve a taxi, please consult the ESTEC Reception or send your request by email: Estec.Reception@esa.int

You can also book a taxi directly via Taxi Brouwer by calling **+31 71 361 1000** or sending an email to info@taxibrouwer.nl

If you wish to reserve the Airport Shuttle, please bear in mind to reserve a seat one day in advance. Purchase a ticket at the **ESTEC Main Reception** located in the A building (cash payment only). The costs for a one-way voucher are €13.50

Wireless Internet

All pre-registered participants have received their log-in details by email, sent by the ESA ServDesk. A copy of your login details is also available in the back of your badge.

PROGRAMME

Tuesday 15 October 2013

Welcome and Introductory remarks

Room: live presentations in Newton, streamed to Einstein

09:00 LOC Announcements

G.L. Pilbratt

ESA-ESTEC (NETHERLANDS)

09:15 Formal Welcome on Behalf of D/SRE Alvaro Giménez

A. N. Parmar

ESA-ESTEC (NETHERLANDS)

Chair: A. Parmar

09:30 Herschel - The Legacy in the Making

G.L. Pilbratt

ESA-ESTEC (NETHERLANDS)

Session 1: Galaxy Formation & Evolution 1: Plenary A

Chair: P. Barthel

Room: live presentations in Newton, streamed to Einstein

09:50 Galaxy Formation and Evolution

J. I. Silk et al.

University of Oxford (UNITED KINGDOM)

10:20 Following the Energy - an Investigation Galaxy Evolution using the Herschel
ATLAS

S. Eales et al.

Cardiff University (UNITED KINGDOM)

10:40 Galaxy Evolution as seen by Herschel/SHINING and QUEST

E. Sturm et al.

Max-Planck-Institute for Extraterrestrial Physics (GERMANY)

11:00 Coffee Break/ Poster Session A1

Session 2: Large scale galactic structure & nearby galaxies 1: Plenary A

Chair: P. Barthel

Room: live presentations in Newton, streamed to Einstein

11:50 The Herschel Take on Nearby Galaxies

D. Calzetti et al.

University of Massachusetts (UNITED STATES)

12:20 Molecular Gas Heating and Gas Outflows in (U)LIRGs - Lessons from SPIRE Spectroscopy

P. van der Werf et al.

Leiden Observatory (NETHERLANDS)

12:40 The HERschel Inventory of The Agents of Galaxy Evolution (HERITAGE) in the Magellanic Clouds

M. Meixner et al.

Space Telescope Science Institute & Johns Hopkins (UNITED STATES)

13:00 Lunch

Session 3: Water, Astrochemistry & ISM physics 1: Plenary A

Chair: F. Helmich

Room: live presentations in Newton, streamed to Einstein

14:00 Astrochemistry: The Promise of Herschel Delivered

E. F. van Dishoeck et al.

Leiden University (NETHERLANDS)

14:30 The Spectral Legacy of the Herschel: A Summary of Results from the Herschel Observations of EXtra-Ordinary Sources Key Program

E. Bergin et al.

University of Michigan (UNITED STATES)

14:50 Absorption Sounding of the Diffuse ISM with Herschel

M. Gerin et al.

Observatoire de Paris, CNRS and ENS (FRANCE)

Session 4: Star & planetary system formation & evolution 1: Plenary A

Chair: C. Waelkens

Room: live presentations in Newton, streamed to Einstein

15:10 Physics of Star and Planet Formation - Towards an Unified Picture

T. Henning et al.

Max-Planck-Institut für Astronomie (GERMANY)

15:40 Highlights from the Herschel Gould Belt Survey: Toward a unified Picture for Star Formation on GMC Scales ?

Ph. André et al.

CEA Saclay (FRANCE)

16:00 The Earliest Phases of Star Formation (EPOS): Resolving the Precursors to High-Mass Stars and Clusters

S. E. Ragan et al.

MPIA (GERMANY)

16:20 Coffee Break/ Poster Session A2

Session 5: The Solar System & its evolution 1: Plenary A

Chair: M. Griffin

Room: live presentations in Newton, streamed to Einstein

16:50 The Solar System in the Infrared and Submillimeter Range: From IRAS to Herschel and Beyond

T. Encrenaz et al.

Paris Observatory (FRANCE)

17:20 A Comparative Study of Uranus and Neptune with Herschel

E. Lellouch et al.

LESIA (FRANCE)

17:40 Tracing the Gas Composition of Titan's Atmosphere with Herschel: Advances and Discoveries

M. Rengel et al.

Max-Planck-Institut für Sonnensystemforschung (GERMANY)

18:00 Welcome Drink at ESTEC/ Poster Session 3

19:00 Buses to Noordwijk from 19:00 to 20:30

Wednesday 16 October 2013

Session 6a: Galaxy Formation & Evolution 2: Evolutionary trends

Chair: L. Conversi

Room: live presentations in Newton 1, streamed to Einstein

09:00 From (U)LIRGs to Main Sequence: The PEP View of the Evolution of Infrared Galaxies

D. Lutz et al.

MPE (GERMANY)

09:20 Galaxy Evolution from the Herschel + HST CANDELS Programs

M. Dickinson et al., presented by H. Inami

National Optical Astronomy Observatory (UNITED STATES)

09:40 Galaxy Evolution in Compact Groups: An Infrared Perspective

V. Charmandaris et al.

University of Crete (GREECE)

10:00 Herschel Sheds Light on the Properties of $z \sim 3, 4, 5$ and 6 Lyman Break Galaxies in the Extended Chanut et al. Deep Field South

R. Greve et al.

University College London (UNITED KINGDOM)

10:20 On the Redshift Evolution ($0 < z < 4$) of Dust Attenuation and of the total (UV+IR) Star Formation Rate Density

D. Burgarella et al.

Laboratoire d'Astrophysique de Marseille (FRANCE)

10:40 An Far-Infrared Survey of Sub-mm Galaxies in the Extended Chandra Deep Field South with ALMA and Herschel

A. M. Swinbank et al., presented by J. Simpson

Durham (UNITED KINGDOM)

11:00 Coffee Break/ Poster Session A4

Session 6b: Water, astrochemistry & ISM physics 2

Chair: D. Teyssier

Room: Newton 2

- 09:00 Large-Area (25' x 40') Velocity-Resolved H₂O Map of Orion: A Unique Laboratory for Studying the Depth-Dependent Water Abundance
G. Melnick et al., presented by D. Neufeld
Harvard-Smithsonian Center for Astrophysics (UNITED STATES)
- 09:20 OH⁺ and H₂O⁺: Probes of the Molecular Hydrogen Fraction and Cosmic-Ray Ionization Rate
N. Indriolo et al.
Johns Hopkins University (UNITED STATES)
- 09:40 Formation and Excitation of the Hydronium Ion in the Interstellar Medium
D. Lis et al., presented by M. Gerin
California Institute of Technology (UNITED STATES)
- 10:00 Water Abundance in Protostellar Envelopes
M. Schmalzl et al.
Leiden Observatory (NETHERLANDS)
- 10:20 A HIFI Molecular Inventory of Oxygen-Rich AGB Stars and the Importance of H₂O Cooling
M. Maercker et al.
University of Bonn (GERMANY)
- 10:40 Detection of a Dense Core in HDO & CCC toward the W51E Region
B. Mookerjee et al.
Tata Institute of Fundamental Research (INDIA)
- 11:00 Coffee Break/ Poster Session A4

Session 7a: Galaxy Formation & Evolution 3: Deepest searches

Chair: L. Conversi

Room: live presentations in Newton 1, streamed to Einstein

11:40 The Herschel Lensing Survey (HLS)

E. Egami et al.

University of Arizona (UNITED STATES)

12:00 The Herschel-ATLAS Sample of Strongly Lensed Galaxies

M. Negrello et al.

INAF - Osservatorio Astronomico di Padova (ITALY)

12:20 HerMES: Herschel/SPIRE-Selected Massive Starburst Galaxies at very high Redshifts

I. Perez-Fournon et al.

Instituto de Astrofísica de Canarias (SPAIN)

12:40 Herschel Unveils Enigmatic Planck Extreme high-z Source Candidates:
Overview

H. Dole et al.

IAS, Orsay (FRANCE)

Sesson 7b: Water, astrochemistry & ISM physics 3

Chair: E. Puga

Room: Newton 2

11:40 Models of FUV Illuminated C-Shocks: Understanding the Water Abundances Observed With Herschel

M. Kaufman et al.

San Jose State University (UNITED STATES)

12:00 Results from the HEXOS Full Band Spectral Survey of Orion South

R. Plume et al.

University of Calgary (CANADA)

12:20 PDR Diagnostics as Observed by PACS and SPIRE

E. Habart et al.

IAS (FRANCE)

12:40 Characterising the Shocks in the W28A2 Massive Outflow

A. Gusdorf et al.

LERMA/LRA, ENS (FRANCE)

13:00 Lunch

Session 8a: Galaxy Formation & Evolution 4: Spectroscopy

Chair: B. Altieri

Room: live presentations in Newton 1, streamed to Einstein

14:00 Water and OH in Mrk 231 as seen by Herschel: Structure, Excitation, and Feedback Diagnostics

J. Fischer et al.

Naval Research Laboratory (UNITED STATES)

14:20 Powerful Molecular Outflows in ULIRGs: Evidence for a Luminosity Threshold above which Quasar Feedback Becomes Dominant

M. Melendez et al.

University of Maryland (UNITED STATES)

14:40 Boosting Far-IR and Molecular Line Cooling in Galaxy Collisions and in Dense Groups via Turbulence and Shocks

P. Appleton et al., presented by P. Guillard

California Institute of Technology (UNITED STATES)

15:00 AGN-Driven Turbulence Revealed by Extreme [CII]158 μ m Line Emission in Radio Galaxies

P. Guillard et al.

Institut d'Astrophysique Spatiale (FRANCE)

15:20 [CII] Measurements of $z=1-3$ Galaxies from the Herschel Extreme Lensing Line Observations (HELLO) Survey.

S. Malhotra et al.

Arizona State University (UNITED STATES)

15:40 Herschel-PACS Observations of Mid-IR and Far-IR Atomic Lines at $z = 1 - 2$

S. Hailey-Dunsheath et al.

California Institute of Technology (UNITED STATES)

16:00 Coffee Break/ Poster Session A5

Session 8b: Water, Astrochemistry & ISM physics 4

Chair: E. Verdugo

Room: Newton 2

14:00 CH⁺ and SH⁺ Absorption Spectroscopy with Herschel*: Probing the Turbulent Dissipation in the Diffuse ISM.

B. Godard et al.

LUTH, Observatoire de Paris (FRANCE)

14:20 The Herschel/HIFI Insight on the CH⁺(1-0) Puzzle in the Diffuse Medium.

E. Falgarone et al.

LERMA, Observatoire de Paris (FRANCE)

14:40 Reactive Ions in Orion

Z. Nagy et al.

I. Physikalisches Institut Universität zu Köln (GERMANY)

15:00 Herschel Far-IR and Submm Spectroscopy of the Galactic Centre

J.R. Goicoechea et al., presented by J. Cernicharo

Centro de Astrobiología (CSIC-INTA) (ITALY)

15:20 Collisional Excitation of Interstellar Hydrides

A. Faure et al.

Université de Grenoble (FRANCE)

15:40 GASPS - a Herschel Survey of Gas and Dust in Protoplanetary Disks

W.-F. Thi et al.

Université Joseph Fourier (FRANCE)

16:00 Coffee Break/ Poster Session A5

Session 9a: Galaxy Formation & Evolution 5: Obscuration, AGN, luminosity scaling

Chair: D. Coia

Room: live presentations in Newton 1, streamed to Einstein

17:00 [CII] 158 μm Line Emission as a Star Formation Rate Tracer

R. Herrera-Camus et al.

University of Maryland (UNITED STATES)

17:20 The Far-IR View of a Hard X-ray Selected Sample of AGN

T. Shimizu et al.

University of Maryland (UNITED STATES)

17:40 Mass IR-Luminosity Scaling Relation for $z=0.2$ Clusters

K. Scott et al.

School of Physics and Astronomy, University of Birmingham (UNITED KINGDOM)

Session 9b: Water, astrochemistry & ISM physics 5

Chair: M. Harwit

Room: Newton 2

17:00 Nitrogen Hydrides in Interstellar Gas: Ortho-to-Para Ratios and deep Searches for new Species

C. M. Persson et al.

Chalmers University of Technology (SWEDEN)

17:20 Herschel Observations of Planetary Nebulae in the MESS Program

P. van Hoof et al.

Royal Observatory (BELGIUM)

17:40 Dust Mass in the Crab Nebula: RT Models with Smooth and Clumpy Distributions

P. J. Owen et al.

UCL (UNITED KINGDOM)

18:00 Posters B to be displayed

18:30 Buses to Conference Dinner & Noordwijk at 18:30

Thursday 17 October 2013

Session 10a: Large scale galactic structure & nearby galaxies 2

Chair: I. Valtchanov

Room: Newton 2

- 09:00 Triggered Star Formation in the Thermal Radio Arches of the Galactic Center Bubble
A. Noriega-Crespo et al.
California Institute of Technology (UNITED STATES)
- 09:20 Beyond The Peak: Resolved Far-Infrared Spectral Mapping of Nearby Galaxies with SPIRE/FTS
J. Smith et al.
University of Toledo (UNITED STATES)
- 09:40 Herschel Reveals the Elusive Gas and Dust Properties and the Structure of the ISM of Low Metallicity Dwarf Galaxies
S. C. Madden et al.
CEA, SAp, Saclay (FRANCE)
- 10:00 Dust Properties of Nearby Galaxies: Results of the Herschel Reference Survey
L. Ciesla et al.
University of Crete (GREECE)
- 10:20 CO Excitation in Luminous Infrared Galaxies
M. Rosenberg et al.
Leiden Observatory (NETHERLANDS)
- 10:40 Extragalactic high-J CO Line Observations with Herschel/PACS
A. Poglitsch et al.
MPE (GERMANY)
- 11:00 Coffee Break/ Poster Session B1

Session 10b: Star & planetary system formation & evolution 2

Chair: A. Marston

Room: live presentations in Newton 1, streamed to Einstein

09:00 The WISH View of the Massive Star Formation

F. Herpin et al.

LAB/OASU (FRANCE)

09:20 The Herschel View of Molecular Cloud Structure and Star-Formation

N. Schneider et al.

LAB Bordeaux (FRANCE)

09:40 Dust and Ice in Protoplanetary Disks

J. Bouwman et al.

Max Planck Institute for Astronomy (GERMANY)

10:00 Variability in the Far-Infrared: A Herschel/PACS Study of IC348

Z. Balog et al.

Max-Planck Institute for Astronomy (GERMANY)

10:20 Water and the Earliest Stages of Star Formation

P. Caselli et al.

University of Leeds (UNITED KINGDOM)

10:40 Herschel View on Atomic/Molecular Emission in Class II Sources: Envelopes, Outflows and Disks

L. Podio et al.

Institut de Planétologie et d'Astrophysique de Grenoble (FRANCE)

11:00 Coffee Break/ Poster Session B1

Session 11a: Large scale galactic structure & nearby galaxies 3

Chair: I. Valtchanov

Room: Newton 2

11:40 The Unbiased Herschel-ATLAS View of the Dusty Local Universe

C. J. R. Clark et al.

Cardiff University (UNITED KINGDOM)

12:00 Herschel Surveys of the Nearby Galaxy Clusters Virgo and Fornax.

J. Davies et al.

Cardiff University (UNITED KINGDOM)

12:20 Circumnuclear Disk and Gas Outflow in Centaurus A.

F. Israel et al.

Leiden University (NETHERLANDS)

12:40 Herschel PACS Spectra of Seyfert Galaxies

L. Spinoglio et al.

INAF (ITALY)

13:00 Lunch

Session 11b: Star & planetary system formation & evolution 3

Chair: P. Garcia-Lario

Room: live presentations in Newton 1, streamed to Einstein

11:40 Variability of Molecular Line Emission in Evolved Stars: The Role of Infrared Pumping

J. Cernicharo et al.

CAB. CSIC-INTA (SPAIN)

12:00 Chemical Enrichment of the Interstellar Medium through the Mass Loss of Evolved Stars

L. K. E. Decin et al.

Insituut voor Sterrenkunde (BELGIUM)

12:20 Dust Formation by Supernova 1987A

M. Matsuura

University College London (UNITED KINGDOM)

12:40 Herschel Observations of Cold Water Vapor and Ammonia in Planet-Forming Disks

M. Hogerheijde et al.

Leiden University (NETHERLANDS)

13:00 Lunch

Session 12a: Large scale galactic structure & nearby galaxies 4

Chair: M. Sanchez-Portal

Room: Newton 2

- 14:00 Herschel Exploitation of Local Galaxy Andromeda: Dust and Star Formation in M31
G. P. Ford et al.
Cardiff University (UNITED KINGDOM)
- 14:20 Dust in Early-type Galaxies and across the Hubble Sequence
M. W. L. Smith et al.
Cardiff University (UNITED KINGDOM)
- 14:40 SPIRE Submillimeter Spectra of Active Galaxies
M. Pereira Santaella et al.
IAPS-INAF (ITALY)
- 15:00 Gas Physics Revealed By Spectral Mapping Of Nearby Galaxies by KINGFISH
K. Croxall et al.
Ohio State University (UNITED STATES)
- 15:20 A Multi-Wavelength Study of the Carina Nebula, the Most Nearby Giant Star Factory in our Galaxy
V. Roccatagliata et al.
Universitäts-Sternwarte München (GERMANY)
- 15:40 Variation in the Dust Emissivity Index across M33 with Herschel and Spitzer (HerM33es)
F. S. Tabatabaei et al.
Max-Planck-Institut für Astronomie (GERMANY)
- 16:00 Extremely Metal Poor Galaxies: Spatially Resolved Dust Properties As Revealed By Herschel
Y. Shi et al.
Nanjing University (CHINA)
- 16:20 Coffee Break/ Poster Session B2

Session 12b: Star & planetary system formation & evolution 4

Chair: P. Harvey

Room: live presentations in Newton 1, streamed to Einstein

14:00 Galactic Cold Cores

M. Juvela et al.

University of Helsinki (FINLAND)

14:20 Unraveling the Evolution of Protostars in Diverse Environments: The Herschel Orion Protostar Survey

T. Megeath et al., presented by W. Fischer

University of Toledo (UNITED STATES)

14:40 Herschel's Exploration of the Solar Neighbourhood: Results of the DEBRIS Key Programme

N. Phillips et al.

European Southern Observatory (CHILE)

15:00 Young Debris Disks in the GASPS Sample

J. Donaldson et al.

University of Maryland (UNITED STATES)

15:20 The Thermal Structure of Isolated Molecular Clouds with Herschel

R. Launhardt et al.

MPIA (GERMANY)

15:40 Unrevealing High-Mass Star Formation in the Milky Way: the Scutum-Crux Arm

M. R. Pestalozzi et al.

IAPS-INAF (ITALY)

16:00 Prestellar Cores in the Aquila Cloud Complex observed by the Herschel Gould Belt Survey

V. Könyves et al.

CEA/Saclay - IAS/Orsay (FRANCE)

16:20 Coffee Break/ Poster Session B2

Session 13a: The Solar System & its evolution 2

Chair: M. Kidger

Room: Newton 2

17:00 Herschel's View on the Cool TNOs

T. Müller et al.

MPE Garching (GERMANY)

17:20 Detection and Characterisation of Ganymede's and Callisto's Water Atmospheres

P. Hartogh et al.

Max-Planck-Institut für Sonnensystemforschung (GERMANY)

17:40 TNOs are Cool: A Survey of the Trans-Neptunian Region. Results from the Combined Herschel PACS and SPIRE Observations of 9 bright Targets at 70-500 Micron.

S. Fornasier et al.

LESIA-Observatoire de Paris (FRANCE)

18:00 The Water Regime of Dwarf Planet (1) Ceres

M. Kueppers et al., presented by D. Bockelee-Morvan

ESA/ESAC (SPAIN)

18:20 Wine & cheese / Poster session B3

19:00 Buses to Noordwijk from 19:00 to 20:30

Session 13b: Star & planetary system formation & evolution 5

Chair: P. Harvey

Room: live presentations in Newton 1, streamed to Einstein

17:00 Waterfalls and Fountains: Infall and Outflow in Solar-Mass Protostars traced by Rotational Lines of Water

J.C. Mottram et al.

Leiden Observatory (NETHERLANDS)

17:20 Debris Around Sun-Like Stars

B. Sibthorpe et al.

SRON (NETHERLANDS)

17:40 The Interplay between Ionized Regions and Star Formation: What have we learned and what can we learn more from Herschel?

A. Zavagno et al.

LAM (FRANCE)

18:00 Impact of Ionization Compression on Star Formation, a Criterion to Differentiate Triggered and Self-Gravitating Star Formation

P. Tremblin et al.

University of Exeter (UNITED KINGDOM)

18:20 Wine & cheese / Poster session B3

19:00 Buses to Noordwijk from 19:00 to 20:30

Friday 18 October 2013

Session 14: Galaxy Formation & Evolution 6: Plenary B

Chair: J. Fischer

Room: live presentations in Newton, streamed to Einstein

09:00 Searching for the Dominant Mode of Galaxy Growth with the Deepest Far-Infrared Herschel Images

D. Elbaz et al.

CEA Saclay (FRANCE)

09:20 The Star-Forming Properties of Active Galaxies to $z=2.5$: A Multi-Faceted View

D. J. Rosario et al.

Max Planck Institute for Extraterrestrial Physics (GERMANY)

09:40 A Herschel SPIRE-FTS Survey of FIR fine Structure Lines in Intermediate Redshift ULIRGs: The Missing Link in Galaxy Evolution

D. Rigopoulou et al.

University of Oxford & RAL-Space (UNITED KINGDOM)

Session 15: Large scale galactic structure & nearby galaxies 5: Plenary B

Chair: J. Fischer

Room: live presentations in Newton, streamed to Einstein

10:00 Herschel-GOALS: PACS and SPIRE Imaging of the Complete Sample of Local Luminous Infrared Galaxies

D. Sanders et al.

University of Hawaii (UNITED STATES)

10:20 Probing the ISM Properties of Galaxies through their FIR Fine-Structure Lines: The SHINING View

J. Graciá Carpio et al.

Max Planck Institute for Extraterrestrial Physics (GERMANY)

10:40 Coffee Break/ Poster Session B4

Session 16: Water, astrochemistry & ISM physics 6: Plenary B

Chair: J. Fischer

Room: live presentations in Newton, streamed to Einstein

- 12:00 Water in High-Mass Star-Forming Regions with Herschel
F. van der Tak et al.
SRON (NETHERLANDS)
- 12:20 What We Learned From Surveying The Galaxy In [CII] With Herschel-HIFI
W. D. Langer et al., presented by P. Goldsmith
JPL-California Institute of Technology (UNITED STATES)
- 12:40 Molecular Oxygen in the Interstellar Medium: Results from the Herschel
OTKP HOP
P. Goldsmith et al.
JPL-California Institute of Technology (UNITED STATES)
- 13:00 Lunch

Session 17: Star & planetary system formation & evolution 6: Plenary B

Chair: G.L. Pilbratt

Room: live presentations in Newton, streamed to Einstein

- 14:00 Herschel MESS Observations of Cool Dust and Molecules in Galactic
Supernova Remnants
M. Barlow et al.
UCL (UNITED KINGDOM)
- 14:20 The Milky Way in the Herschel Hi-GAL Survey
S. Molinari et al., presented by A. Noriega-Crespo
INAF (ITALY)
- 14:40 HOBYS Introduces the "Present-Day SFR" Concept and Links high SFR to Mini-
starburst Ridges
F. Motte et al.
AIM Paris-Saclay (FRANCE)

Session 18: Beyond Herschel: SPICA

Chair: G.L. Pilbratt

Room: live presentations in Newton, streamed to Einstein

15:00 Beyond Herschel: SPICA - the Next-Generation Infrared Space Mission

T. Nakagawa & Roelfsema P.

ISAS/JAXA (JAPAN) & SRON (NETHERLANDS)

Session 19: Wrap-up Session

Chair: G.L. Pilbratt

Room: live presentations in Newton, streamed to Einstein

15:20 Wrap up: Galaxy Formation & Evolution, *R. Genzel*

15:35 Wrap-up: Large scale galactic structure & nearby galaxies, *L. Hunt*

15:50 Wrap-up: Water, astrochemistry & ISM physics, *E. Bergin*

16:05 Wrap-up: Star & Planetary System Formation & Evolution, *D. Ward-Thompson*

16:20 Wrap-up: The Solar System and its Revolution, *P. Hartogh*

16:35 Close of symposium/ Farewell

16:40 Coffee/ Poster B down

List of Posters

Poster Presentations are divided into two poster sessions. A total of 204 posters are listed.

The posters are listed in alphabetical order of the surname of the first author, in each of the five subject topics respectively. The division into poster sessions is as follows:

Poster session A: 15 - 16 October 2013

- * Topic 1: Galaxy formation & evolution
- * Topic 3: Water, astrochemistry & ISM physics

Poster session B: 17 - 18 October 2013

- * Topic 2: Large scale galactic structure & nearby galaxies
- * Topic 4: Star & planetary system formation & evolution
- * Topic 5: The Solar System & its evolution

Poster session A: 15 - 16 October 2013

Topic 1: Galaxy formation & evolution

- P01 SUPREME: A Super-Resolution Map-making Method For Extended Emission
Ayasso, H. et al.
Université Joseph Fourier/ GIPSA-LAB, (FRANCE)
- P02 Herschel Sources In The SIMES Survey
Baronchelli, I. et al.
Università di Padova, (ITALY)
- P03 PEP: The Galaxies Dominating the Cosmic IR Background and their
Molecular Gas Mass Function.
Berta, S. et al.
Max Planck Inst. f. Extraterrestrische Physik, (GERMANY)
- P04 Dust is Very Rare at Low Metallicities: The Extremely Low Dust Content in I
Zw 18
Bolatto, A. et al.
University of Maryland,(UNITED STATES)

- P05 On the Relation Between Dust, Gas, and Attenuation in Galaxies at kpc
Acales
Boquien, M. et al.
Laboratoire d'Astrophysique de Marseille, (FRANCE)
- P06 HERMES: Unveiling Obscured Star Formation in Ultraviolet Selected
Galaxies from $z=1.5$ to $z=4$
Buat, V.
Laboratoire d'Astrophysique de Marseille, (FRANCE)
- P07 Terra Incognita: The First Insight into the Gas Properties of the Host Galaxy
GRB 980425
Castro Cerón, J.M.
ISDEFE for the Herschel Science Centre (ESA-ESAC), (SPAIN)
- P08 Multivariate Analysis of the SPIRE Maps: Using Principle Component
Analysis as a Basis for P(D) Fluctuation Analysis
Clarke, C. L. et al.
University of Sussex, (UNITED KINGDOM)
- P09 A Local Universe View at the ISM of high- z Galaxies: Fine Structure Lines
and Continuum of Lyman Break Analogs
Contursi, A. et al.
Max-Planck-Institut für extraterrestrische Physik, (GERMANY)
- P10 Are Ly-alpha Blobs indeed the Sites of very Active Star Formation?
Dannerbauer, H. et al.
Universität Wien, Institut für Astrophysik, (AUSTRIA)
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UPMC, (FRANCE)
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University of Nottingham/University of St Andrews, (UNITED KINGDOM)
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Herschel Science Centre, ESAC, (SPAIN)
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Dark Cosmology Centre,(DENMARK)

P53 Star Formation Enhancement In Close Major-Merger Pairs with $z < 1$
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California Institute of Technology, (UNITED STATES)

P54 Obscured AGN in a Strongly Lensed Giant Arc Revealed with Herschel
Zamojski, M. et al.
Observatoire de l'Université de Genève (SWITZERLAND)

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Leiden Observatory, (NETHERLANDS)

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Institut d'Astrophysique Spatiale, (FRANCE)

P57 Evolution of Dust in Photodissociation Regions from PACS and SPIRE
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IRAP (CNRS and Univ. Toulouse), (FRANCE)

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University of Maryland, (UNITED STATES)

P60 Deuteration of Ammonia in the Solar-Type Class 0 Protostar IRAS16293
Bottinelli, S. et al.
Université de Toulouse/UPS-OMP/IRAP/CNRS, (France)

- P61 A Non-Equilibrium Ortho-to-Para Ratio of Water in the Orion PDR as seen by Herschel/HIFI
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Kapteyn Astronomical Institute & SRON, (NETHERLANDS)
- P62 Deuterated Water in Star-Forming Regions
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Niels Bohr Institute & Centre for Star and Planet Formation, (DENMARK)
- P63 When Twins are not Identical: A HIFI Scan of IRAS 15194-5115, the Stellar Twin of IRC +10216
De Beck, E. et al.
Max Planck Institut für Radioastronomie, (GERMANY)
- P64 HCN Emission around IRC +10216: The HIFI View
De Beck, E. et al.
Max Planck Institut für Radioastronomie, (GERMANY)
- P65 Herschel Observations of the Sgr B2: Hydrides, warm CO and cold Dust
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Centro de Astrobiología (CSIC-INTA), (SPAIN)
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Observatorio Astronómico Nacional (OAN,IGN), (SPAIN)
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Centro de Astrobiología (CSIC-INTA), (SPAIN)
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- P69 Gas Morphology and Energetics in bright Photodissociation Regions
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- P70 Isolating Gaussian from Non-Gaussian Fluctuations in Herschel Maps:
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- P71 A Detailed Herschel View of Chlorine in a Protostellar Core
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Leiden Observatory, (NETHERLANDS)
- P72 Far-infrared Molecular Lines from low- to high-mass Star Forming Regions
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Stockholm University, (SWEDEN)
- P75 Peering into Protostellar Shocks with Herschel : a New View
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- P76 A Dedicated Study of Deuteration in the Intermediate-Mass Protostar OMC-
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- P77 From a Molecular Ridge to "fake" Filaments: The Impact of Massive Star Ionisation
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- P81 PACS and SPIRE Spectroscopy of the Carina Region
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Laboratoire de Radioastronomie Millimétrique, UMR 8112 du CNRS, École Normale Supérieure et Observatoire de Paris, (France)
- P84 Spitzer and Herschel Multiwavelength Characterization of the Dust Content of Evolved HII Regions
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- P85 Unveiling the Origin and Excitation Mechanisms of the Warm CO, OH and CH⁺
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- P86 Component Separation in Herschel Maps based on the Coherence Analysis with Atomic and Molecular Gas
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Sanchez-Contreras, C. et al.
Astrobiology Center (INTA/CSIC), (SPAIN)
- P89 A Study of Water Excitation in the IRAS4A Protostellar Outflow with Herschel
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NASA GSFC / NPP, (UNITED STATES)

- P93 The Inversion Method Approach to Derive 3D Dust Emission Properties in the ISM: The Hi-GAL Field Centred on (l,b)=(30,0).
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Centre for Star and Planet Formation, University of Copenhagen, (DENMARK)
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- P98 Depletion Cores - the O₂ hideout?
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- P99 Analysis of Clump Mass Spectra of OMC1 using the Herschel SPIRE Archival Data
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Sejong University, (REPUBLIC OF KOREA)
- P100 Evolution of Dust Properties in a Dense Filament of the Taurus Molecular Complex (L1506)
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Institut d'Astrophysique Spatiale, (FRANCE)

- P101 A Herschel Survey of the [N II] 205 μm Emission in Local Luminous Infrared Galaxies
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- P2 Heating and Cooling of the ISM in NGC 1097
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- P3 Extending the Analysis of Dust Heating in Nearby Galaxies with Herschel
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- P5 [CII] and Hydrogen Species in LITTLE THINGS Dwarf Galaxies: The Extremely Metal-Poor Regime
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- P6 The ISM Structure of Low-Metallicity Dwarf Galaxies.
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ITA/ZAH, Universität Heidelberg (GERMANY)

- P7 A Two-Parameter Model for the Infrared/Submillimeter/Radio Spectral Energy Distributions of Galaxies and AGN
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University of Wyoming, (UNITED STATES)
- P8 The Challenge of Radiative Transfer in Edge-On Spiral Galaxies: the HEROES Sample.
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Universiteit Gent, (BELGIUM)
- P9 The Reliability of FIR Line Emission as SFR Indicator
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- P10 High-Resolution, 3D Radiative Transfer Modeling of M51
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Georgia College & State University, (UNITED STATES)
- P12 Probing the Properties of the Interstellar Medium of Nearby Galaxies with Herschel
Galametz, M.
Institute of Astronomy, (UNITED KINGDOM)
- P13 H-ATLAS : SDSS Cross-Correlation induced by Weak Lensing
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Instituto de Fisica de Cantabria, (SPAIN)
- P14 [CII] 158 Micron Line Emission as a Star Formation Rate Tracer
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University of Maryland, (UNITED STATES)

- P15 New Herschel Multi-wavelength Extragalactic Survey of Edge-on Spirals (NHEMESES)
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- P16 Resolved Dust Analysis of Nearby Edge-On Galaxy NGC 891
Hughes, T. et al.
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- P17 Early-Type Galaxies: Herschel SPIRE Spectroscopy & Star Formation
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- P19 Extragalactic HF Molecular Line Observations from Herschel SPIRE and HIFI Spectroscopy.
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- P20 Spectrally Resolved [CII] Spectroscopy of M33 with HIFI: HerM33es
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Tata Institute of Fundamental Research, (INDIA)
- P21 PACS Spectroscopy Along the Major Axis of M33
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Cornell University, (UNITED STATES)
- P22 Dust Properties in Dwarf Galaxies as Uncovered by the Dwarf Galaxies Survey with Herschel
Remy-Ruyer, A. et al.
CEA - AIM/ Service d'Astrophysique, (FRANCE)

- P23 Zero-Point Correction for Herschel-SPIRE Maps through Planck-HFI Cross Calibration
Schulz, B. et al.
California Institute of Technology, (UNITED STATES)
- P24 Herschel Photometry and Diffuse Emission Analysis with BoloSource() Code
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ESA/ESAC, (SPAIN)
- P25 Physics Revealed by Fine-Structure Lines and Broad Range CO Ladders from M83
Wu, R. et al.
AIM, CEA Saclay, (FRANCE)
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Young, L. et al.
New Mexico Tech, (UNITED STATES)

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Konkoly Observatory, (HUNGARY)
- P28 A Catalogue of Protostars embedded in the IRDCs in the Galactic Range $15^\circ \leq l \leq 55^\circ$
Traficante, A. et al.
University of Manchester, (UNITED KINGDOM)
- P29 Herschel Survey of Brown Dwarf Disks in Rho Ophiuchi
Alves de Oliveira, C. et al.
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- P30 Characterizing Interstellar Filaments with Herschel in Nearby Clouds: Insights into the Initial Conditions for Star Formation
Arzoumanian, D. et al.
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- P31 Filaments and Compact Sources Distribution in the Lupus Star Forming Region
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- P32 Far-IR Photometric and Spectroscopic Monitoring of Protostars in Orion A
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- P33 Clustering Properties of Herschel Compact Sources in the Galactic Plane
Billot, N. et al.
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- P34 Study of the 69 Micron Band of Crystalline Olivine around Evolved Stars
Blommaert, J. et al.
Inst. voor Sterrenkunde, KU Leuven, (BELGIUM)
- P35 Revealing Astrospheres Around Young and Old Stars in the Far Infra-Red
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KU Leuven, (BELGIUM)
- P36 Filamentary Structure in the Musca and Chamaeleon Dark Clouds
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KU Leuven, (BELGIUM)
- P37 The Herschel View of Yellow Hypergiants as post-Red Supergiants in a pre-Luminous Blue Variable Phase.
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KU Leuven, (BELGIUM)

- P38 Comet-Like Mineralogy of Olivine Crystals in an Extrasolar Proto-Kuiper Belt
de Vries, B.L. et al.
Instituut voor Sterrenkunde (KU Leuven), (BELGIUM)
- P39 Star Formation in the Carina Arm as seen by Herschel: Pre- and Proto-Stellar Clumps in the $289^{\circ} \leq l \leq 307^{\circ}$ Portion of the Hi-GAL Survey
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INAF-IFSI, (ITALY)
- P40 The Case of the Exploding Star: V838 Mon Observed with Herschel
Exter, K et al.
Inst. voor Sterrenkunde, KU Leuven, (BELGIUM)
- P41 Tracing Protostellar Envelope Evolution in Orion with Herschel
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University of Toledo, (UNITED STATES)
- P42 An Independent Distance Estimate to CW Leonis
Groenewegen, M.
Royal Observatory of Belgium, (BELGIUM)
- P43 The Homunculus of Eta Carinae: Anomalous N- and ^{13}C -Molecular and HI Emissions
Gull, T. et al.
NASA/GSFC, (UNITED STATES)
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Chalmers University of Technology, (SWEDEN)
- P45 The Dust and Gas Structure in the S 140 Cluster
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University of Texas, (UNITED STATES)

- P46 Nitrogen Hydrides in IRDCs: Exploring the Initial Conditions of IRDC Core Formation
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European Southern Observatory, (GERMANY)
- P47 Superwinds from Extreme OH/IR Stars
Justtanont, Kay. et al.
Chalmers University of Technology, (SWEDEN)
- P48 N-Bearing Molecules in the Protostellar Envelope of AFGL 2591
Kazmierczak, M. et al.
SRON Netherlands Institute for Space Research, (NETHERLANDS)
- P49 Herschel's View on Detached Shells Around Evolved Stars
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University of Vienna, (AUSTRIA)
- P50 Dark Shadows in T Tauri Disks: Accretion-Related Changes Indicated by Infrared Variability
Kóspál, Á. et al.
ESA, (NETHERLANDS)
- P51 High Mass Star Formation Revealed by Herschel PACS Data of WISH
Kwon, W. et al.
SRON Netherlands Institute for Space Research, (NETHERLANDS)
- P52 The Herschel Planetary Nebulae Survey: HerPlaNS
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- P53 The Transition from Atomic to Molecular Interstellar Medium
Li, D. et al.
National Astronomical Observatories of China, (CHINA)

- P54 The Transition from pre- to Protostellar Cores in EPoS Sources: Herschel Continuum and Ground-Based Molecular Line Observations in Concert
Linz, H. et al.
MPIA Heidelberg, (GERMANY)
- P55 Herschel Reveals the Ejecta of Wolf-Rayet Stars
Marston, A.
ESA, (SPAIN)
- P56 SPIRE and PACS Spectroscopic Observations of the Red Supergiant VY CMa
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University College London, (UNITED KINGDOM)
- P57 Unveiling the Formation of Stars and Planets in Chamaeleon with Herschel
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- P58 Herschel/PACS Photometry of Transiting Planet Host Stars with Candidate Warm Debris Disks
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- P59 B68 - The HERSCHEL View: Dust Temperatures and Densities
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Max Planck Institute for Astronomy, (GERMANY)
- P60 The Shape of the Mass-Function of Dense Cores in Two Hi-GAL Fields
Olmi, L. et al.
OAA-INAF and UPR-RP, (ITALY)

- P61 Dust Grain Sizes in Herschel-Resolved Debris Discs
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- P62 The Star-Forming Region in Perseus: The Results of PACS/SPIRE Observations
Pezzuto, S. et al.
IAPS - INAF, (ITALY)
- P63 Herschel Observations of the Massive Young Cluster in Monoceros R2
Rayner, T. et al.
Cardiff University, (UNITED KINGDOM)
- P64 Physical Properties of the Dense High-Latitude Clump MCLD 126.6+24.5
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IRAP, CNRS-Universite de Toulouse (FRANCE)
- P65 Galactic Star Formation: From Diffuse High-Latitude Environments to Clusters of High-Mass Stars
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IRAP, (FRANCE)
- P66 Herschel Observations of Gas in Debris Disks from the GASPS Key Programme
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NASA Goddard Space Flight Center, (UNITED STATES)
- P67 Reconstructing Density and Temperature Structures of Cores from Herschel Data Using Abel's Integral Transformation.
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- P68 The Star Forming Region NGC 6334 as Seen by Herschel-HOBYS
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Aix Marseille Université, CNRS, LAM, (FRANCE)

- P69 A Herschel and BIMA Study of the Sequential Star Formation in the W48A Star-Forming Region
Rygl, K., L., J. et al.
ESA, ESTEC, (NETHERLANDS)
- P70 Star Formation from small to large Scale: Studying the Role and Impact of the Environment in the Herschel Era.
Samal, M. et al.
Laboratoire d' Astrophysique de Marseille, (FRANCE)
- P71 High-J CO from Low- To High-Mass: The Dynamics in Protostellar Envelopes
San Jose-Garcia, I. et al.
Leiden Observatory, (NETHERLANDS)
- P72 Herschel/PACS Survey of Protoplanetary Disks in Taurus/Auriga -- Observations of [OI] and [CII], and far Infrared Continuum
Sandell, G. et al.
SOFIA-USRA (UNITED STATES)
- P73 The Identification of Filaments on Far-Infrared and Submillimeter Images: Morphological Analysis of Hi-GAL Maps
Schisano, E. et al.
California Institute of Technology, (UNITED STATES)
- P74 Observations of the Circumstellar Ammonia Lines in Carbon-Rich AGB Stars by Herschel Space Observatory.
Schmidt, M. R. et al.
Nicolaus Copernicus Astronomical Center, Radańska 8, 87-100 Toruń, (POLAND)
- P75 Herschel-Resolved Debris Disks around nearby FGK Stars: Models and Comparison with HST Images
Stapelfeldt, K.
NASA Goddard Space Flight Center, (UNITED STATES)

- P76 The Discovery of Extremely Young Protostars in Orion with Herschel and APEX
Stutz, A. et al.
 MPIA, (GERMANY)
- P77 Herschel, Spitzer and near-IR Imaging and Spectroscopy of the Star Forming Region RCW 121 (IRAS17149-3916)
Tapia, M. et al.
 Universidad Nacional Autonoma de Mexico-UNAM, (MEXICO)
- P78 Time Variability of Thermal Molecular Emission in IRC+10216
Teyssier, D. et al.
 ESAC, (SPAIN)
- P79 The Massive Dense Cores in NGC 6334 and NGC 6357 : The Herschel-HOBYS View
Tigé, J. et al.
 Laboratoire d'Astrophysique de Marseille - LAM, (France)
- P80 Star Formation in Planck Cold Clouds - from Dense Cores to YSOs
Toth, L. V. et al.
 Eötvös Univ. Budapest, (HUNGARY)
- P81 Herschel Observations of Nebulae Ejected by Massive Evolved Stars
Vamvatira-Nakou, C. et al.
 Université de Liège, (BELGIUM)
- P82 Herschel Imaging of Planetary Nebulae
Van de Steene, G. C. et al.
 Royal Observatory of Belgium, (BELGIUM)
- P83 An Analysis of Star Formation with Herschel in the Hi-GAL Survey. II. The Tips of the Galactic Bar.
Veneziani, M. et al.
 California Institute of Technology, (UNITED STATES)

- P84 Is there Something Like a Typical T Tauri Disk in Taurus?
Vicente, S. et al.
Kapteyn Astronomical Institute, (NETHERLANDS)
- P85 A Herschel View of the Photoevaporation and Chemistry of Gas in Proplyds
Vicente, S. et al.
Kapteyn Astronomical Institute, University of Groningen, (NETHERLANDS)
- P86 Herschel Observations of Pre-Stellar Cores compared to Data from SCUBA2
Ward-Thompson, D et al.
University of Central Lancashire, (UNITED KINGDOM)
- P87 A Water Survey of Massive Star Forming Clumps in the Inner Galaxy
Wyrowski, F. et al.
MPIfR, (GERMANY)

Poster session B: 17 - 18 October 2013

Topic 5: The Solar System & its evolution

- P89 Observations of Ammonia in Comets with Herschel
Biver, N. et al.
Observatoire de Paris, (FRANCE)
- P90 Herschel Measurements of the D/H ratio in Cometary Water
Bockelee-Morvan, D. et al.
LESIA, Observatoire de Paris, (FRANCE)
- P91 The Origin of External Oxygen in Jupiter and Saturn's Environments
Cavalié, T. et al.
Laboratoire d'Astrophysique de Bordeaux, (FRANCE)
- P92 Search for Water and Upper Limit to the Outgassing Rate of the Main-Belt Comet 176P/LINEAR using Herschel/HIFI
de Val-Borro, M. et al.
Princeton University, (UNITED STATES)

- P93 A Search for Latitudinal and Seasonal Variations of Molecular Oxygen on Mars using Herschel/HIFI
Encrenaz, T. et al.
Paris Observatory, (FRANCE)
- P94 Results of the HssO Key Programme
Hartogh, P. et al.
Max-Planck-Institut für Sonnensystemforschung, (GERMANY)
- P95 The Thermal Emission of the Eris-Dysnomia System as seen by Herschel/PACS
Kiss, C. et al.
Konkoly Observatory, (HUNGARY)
- P96 Herschel/PACS Observations of the "Supercomet" Candidates 2012 DR30 and 2013 AZ60
Kiss, C. et al.
Konkoly Observatory, (HUNGARY)
- P97 Thermal Properties of Kuiper Belt Objects and Centaurs from Combined Herschel and Spitzer Observations
Lellouch, E. et al.
LESIA, (FRANCE)
- P98 The Phoebe Ring as observed by Herschel
Marton, G. et al.
Konkoly Observatory, (HUNGARY)
- P99 Comet Dust Profiles from PACS Images Obtained in the Framework of the HssO Project
Opitom, C. et al.
Institut d'Astrophysique et de Géophysique, Université de Liège, (BELGIUM)
- P100 Herschel Observations of Near Earth Objects : Encounters with Spacecraft and with the Earth
O'Rourke, L. et al.
ESA/ESAC, (SPAIN)

- P101 Herschel Observations of asteroid 21 Lutetia - the Rosetta Flyby Target
O'Rourke, L. et al.
ESA/ESAC, (SPAIN)
- P102 Thermal Light Curves of Trans-Neptunian Objects and Centaurs with
Herschel Space Observatory
Santos-Sanz, P. et al.
Instituto de Astrofísica de Andalucía-CSIC, (SPAIN)
- P103 Comet 10P/Tempel 2 Outgassing Observed with Herschel Space
Observatory
Szutowicz, S. et al.
Space Research Centre PAS, (POLAND)

The Universe Explored by Herschel

Programme Overview

Day 01 15 October 2013		Day 02 18 October 2013		Day 03 17 October 2013		Day 04 18 October 2013	
Plenary Newton 1&2, streamed to Einstein		Parallel/ Newton 1, streamed to Einstein		Parallel/ Newton 2		Parallel/ Newton 1, streamed to Einstein	
08:00	On-site Registration	08:00	Registration Desk Opens	08:30	Registration Desk	08:30	Registration Desk
09:00	Welcome	08:50	LOC announcements	08:50	LOC announcements	08:50	LOC announcements
09:50	Session 1: Galaxy Formation & Evolution 1: Plenary A	09:00	Session 6a: Galaxy Formation & Evolution 2: Evolutionary trends	09:00	Session 10a: Large scale galactic structure & nearby galaxies 2	09:00	Session 14: Galaxy Formation & Evolution 6: Plenary B
11:00	Coffee break / Poster session A1	11:00	Coffee break / Poster session A4	11:00	Coffee break / Poster session B1	10:00	Session 15: Large scale galactic structure & nearby galaxies 5: Plenary B
11:50	Session 2: Large scale galactic structure & nearby galaxies 1: Plenary A	11:40	Session 7a: Galaxy Formation & Evolution 3: Deepest searches	11:40	Session 11a: Large scale galactic structure & nearby galaxies 3	10:40	Coffee break / Poster session B4
13:00	Lunch	13:00	Lunch	13:00	Lunch	12:00	Session 16: Water, astrochemistry & ISM physics 6: Plenary B
14:00	Session 3: Water, astrochemistry & ISM physics 1: Plenary A	14:00	Session 8a: Galaxy Formation & Evolution 4: Spectroscopy	14:00	Session 12a: Large scale galactic structure & nearby galaxies 4	13:00	Lunch
15:10	Session 4: Star & planetary system formation & evolution 1: Plenary A	16:00	Coffee break / Poster session A5	16:20	Coffee break / Poster session B2	14:00	Session 17: Star & planetary system formation & evolution 6: Plenary B
16:20	Coffee break / Poster session A2	17:00	Session 9a: Galaxy Formation & Evolution 5: Obscuration, AGN, luminosity scaling	17:00	Session 13a: The Solar System & its evolution 2	15:00	Session 18: Beyond Herschel: SPICA
16:50	Session 5: The Solar System & its evolution 1: Plenary A	18:00	Posters B to be displayed	18:20	Wine & cheese / Poster session B3	15:20	Session 19: Wrap-up session
18:00	Welcome Drink / Poster session A3	18:30	Buses to Conference Dinner & Noordwijk at 18:30	19:00	Buses to Noordwijk from 19:00 to 20:30	18:35	Close of symposium / Farewell
19:00	Buses to Noordwijk from 18:00 to 20:30					18:40	Coffee / Posters B down