

**HERSCHEL PACS AND SPIRE MAP-MAKING WORKSHOP**  
**ESAC, 28-31 January 2013**  
**(Rooms D1/D2)**

**FINAL PROGRAM**

**DAY 1 (Monday, 28 January) - start @ 10am**

9:00 – 10:00 Registration: badges/programs/wifi info

Session 0: Introduction (*Chair: P. Garcia-Lario*)

10:00 - 10.10 Welcome and logistics

10.10 - 10.30 Herschel Data Processing: Status and Outlook – (Stephan Ott)

10.30 - 10.50 Introductory talk on PACS instrument - (Bruno Altieri)

10.50 - 11.10 Introductory talk on SPIRE instrument – (Luca Conversi)

11.10 - 11.40 Pointing accuracy: status and impact on inversion map  
making techniques (Herve Aussel)

11.40 – 12:00 *Coffee Break*

Session I: Map making techniques for PACS & SPIRE (*Chair: R. Vavrek*)

12:00 - 12.30 PACS High-pass filtering (Bruno Altieri)

12:30 – 13:10 Scanamorphos & JScanam (Michael Wetzstein)

13:10 – 13:40 The SPIRE Destriper (Bernhard Schulz)

13:40– 14:40 *Lunch*

14.40 – 15:10 MADMap pre-processing and signal drift mitigation (Babar Ali)

15:10 – 15:40 MADMap for PACS (Ted Kisner)

15:40 – 16:00 *Coffee Break*

16:00 – 16:30 UNIMAP (Lorenzo Piazzo)

16:30 - 17:00 SANEPIC for Herschel (Alexandre Beleen)

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**DAY 2 (Tuesday, 29 January) - start @ 9.30am**

9.30am - 9.40am Greetings and Welcome to Day 2

Session I (Cont.): Map making techniques for PACS & SPIRE (*Chair: V. Konyves*)

09:40 – 10:10 Tamasis (Pierre Chaniel)

10:10 – 10:40 SUPREME: a high-resolution mapmaker (Hacheme Ayasso)

10:40 – 11:10 SPIRE Superresolution Maps with the HiRes Maximum Correlation Methods (Dave Shupe)

11:10 - 11.30 *Coffee Break*

Session II: Quality assessment of map making techniques for PACS  
(*Chair: B. Altieri*)

11:30m – 11:50 PACS Benchmarking environment and comparison metrics  
(Roberta Paladini)

11:50 – 12:10 PACS simulations (Roland Vavrek)

12:10 – 12:30 PACS Power Spectrum Estimation - (Gabor Marton)

12:30 – 12:50 PACS Point Source Photometry (Zoltan Balog)

12:50 – 13:10 PACS Noise Statistics (Lorenzo Piazzo)

13:10 – 13:30 Difference Matrix (Vera Konyves)

13:30 – 14:30 *Lunch*

14:30 – 14:50 Comparison with Ancillary Data I (Babar Ali)

14:50 – 15:10 Comparison with Ancillary Data II (Roberta Paladini)

Session III : Quality assessment of map making techniques for SPIRE  
(*Chair: H. Aussel*)

15:10 – 15:30 SPIRE Benchmarking environment and comparison metrics  
(Kevin Xu)

15:30 – 15:50 SPIRE simulations (Kevin Xu)

15:50 – 16:10 *Coffee Break*

16:10 – 16:30 Deviation from the truth (Vera Konyves)

16:30 – 16:50 SPIRE Power Spectrum Estimation (Luca Conversi)

16:50 – 17:10 SPIRE Extended/Point Source Photometry (Kevin Xu)

17:10 – 17:30 Metrics for super-resolution maps (Dave Shupe)

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**DAY 3 (Wednesday, 30 January) - start @ 9.30am**

09:30 – 09:40 Greetings and Welcome to Day 3

Session IV: Comparison with ancillary data sets (Spitzer/MIPS, ISO, COBE/DIRBE, IRAS, etc.) (*Chair: V. Konyves*)

09:40 - 10.20 PACS calibration in KINGFISH survey & convolution kernels  
(Gonzalo Aniano)

Session V: Photometry of (mostly) extended sources: issues, and results  
(*Chair: R. Paladini*)

10:20 – 10:50 ROMAGAL: the Hi-GAL data reduction pipeline (Alessio Traficante)

10:50 – 11:20 Gould Belt Survey: map-making and selection of scientific results  
(Vera Konyves)

11:20 – 11:40 *Coffee Break*

11:40 – 12:10 Herschel Galactic Cold Cores: A Summary (Veli-Matti Pelkonen)

12:10 – 12:40 EPoS: The Earliest Phases of Star Formation: Mapping and  
analysing extended emission and point sources  
(Markus Nielbock)

12:40 - 13:10 HOBYS: data reduction, map-making and source extraction  
(Martin Henneman)

13:10 – 13:40 Photometry in Crowded Regions: The Herschel Orion Protostar  
Survey (Will Fischer)

13:40 - 14.40 *Lunch*

14:40 – 15:10 Galactic Winds in NGC 4631 (Marcio Melendez)

15:10 – 15:40 MESS: MESSy PACS images and Deconvolution (Roland  
Ottensamer)

15:40 – 16:00 *Coffee Break*

Session V (Cont.): Photometry of (mostly) extended sources: issues, and results  
(*Chair: L. Conversi*)

16:00 – 16:15 Hermes: stacking PACS maps. Inversion vs. high-pass filtering  
methods (Herve Aussel)

16:15 – 16:45 Hermes: the SMAP extended emission mapper (Bernhard Schulz)

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**DAY 4 (Thursday, 31 January) - start @ 9.30am**

09:30 – 09:40 Greetings and Welcome to Day 4

Session V (Cont.) : Photometry of (mostly) extended sources: issues, and results  
(*Chair: K. Xu*)

09:40 – 10:10 PACS data reduction for the PEP deep extragalactic survey (Dieter Lutz/Stefano Berta)

10:10 – 10:40 H-Atlas & HVCS: Map Making and Flux Extraction with Extragalactic Parallel Observations (Matt Smith)

Session VI: Other mapping techniques and strategies (*Chair: B. Schulz*)

10:40 – 11:10 CMB map-making in the era of Planck (Julian Borrill)

11:10 – 11:30 *Coffee Break*

Session VI (Cont.): Other mapping techniques and strategies (*Chair: B. Schulz*)

11:30 – 12:00 First generation map-making for SCUBA-2 (Ed Chapin)

12:00 – 12:30 Map-making and Signal Estimation with Bolocam (Jack Sayers)

12:30 – 13:00 boloSource: a new source subtraction technique for extended emission analysis (Roland Vavrek)

13:00 – 13:15 Final discussion and wrap-up