



Der Wissenschaftsfonds.



RESEARCH CONFERENCES

ESF-FWF Conference in Partnership with LFUI

The Origin of Galaxies: Exploring Galaxy Evolution with the New Generation of Infrared-Millimetre Facilities

Universitätszentrum Obergurgl
(Ötz Valley, near Innsbruck) • Austria
24-29 March 2007

Chair: **Eelco van Kampen**, University of Innsbruck, Institute for
Astrophysics, AT
Co-Chair: **James S. Dunlop**, University of Edinburgh, Institute for
Astronomy, UK

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Final Programme

Saturday 24 March

Late afternoon / early evening	Registration at the ESF-RC desk
19.00	Welcome Drink
20.00	Dinner

Sunday 25 March

09.00-09.10	Conference Opening
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Session 1: Overview of Present Observational Data

Chair: **Eelco van Kampen**, Innsbruck University, AT

09.10-09.40	Jim Dunlop IfA, University of Edinburgh, UK <i>Current mm/submm studies</i>
09.40-10.10	David Elbaz CEA Saclay, FR <i>Current infrared studies</i>
10.10-10.30	Emanuele Daddi CEA Saclay, FR <i>Measuring SFRs at the galaxy assembly epoch: a diagnostic from multiwavelength estimators in GOODS (short talk)</i>
10.30-11.00	Coffee break
11.00-11.20	Thomas Greve CalTech, US <i>A 1200 micron survey of GOODS-N (short talk)</i>
11.20-11.40	Brian Siana Spitzer Science Center, CalTech, US <i>Evidence for 3.3 micron PAH emission at high redshift (short talk)</i>
11.40-12.00	Mark Halpern University of British Columbia, CA <i>Recent results from BLAST (short talk)</i>
12.15	Lunch

Session 2: Future Instruments

Chair: **Jim Dunlop**, Edinburgh University, UK

16.00-16.30	Coffee break
16.30-17.00	Paola Andreani European Southern Observatory, DE <i>ALMA extragalactic science</i>

- 17.00-17.30 **Mark Halpern**
University of British Columbia, CA
SCUBA-2
- 17.30-17.50 **Edward Wright**
UCLA, US
WISE: the Wide-field infrared survey explorer (short talk)
- 17.50-18.10 **Dominic Benford**
NASA/GSFC, US
Studying galaxy evolution with SOFIA (short talk)
- 18.15-19.30 **Dinner & Poster Session**
- 19.30-20.00 **Steve Eales**
Cardiff University, UK
The Herschel Space Observatory
- 20.00-20.20 **Göran Pilbratt**
European Space Agency, NL
Status and observing opportunities with the Herschel Space Observatory (short talk)
- 20.20-20.40 **Kate Isaak**
Cardiff University, UK
ESI: the far-infrared imaging spectrometer for SPICA (short talk)
- 20.40-21.00 **Woong-Seob Jeong**
Institute of Space and Astronautical Sciences Kanagawa, JP
Far-IR detection limits: probing confusion limits (AKARI, Herschel, SPICA) (short talk)

Monday 26 March

Session 3: Predictions for New Infrared-mm Surveys (I)

Chair: Matt Jarvis, University of Hertfordshire, UK

- 09.00-09.30 **Simon White**
MPA Garching, DE
Predictions for galaxy formation
- 09.30-10.00 **William Percival**
University of Portsmouth, UK
Predictions for cosmology
- 10.00-10.20 **Stephen Serjeant**
Open University, UK
The link between the cosmic near-IR background and the sub-mm background: recent results from SHADES (short talk)
- 10.20-10.40 **Emeric Le Floc'h**
University of Hawaii, US
Characterizing the most luminous mid-IR galaxies in the high redshift Universe (short talk)
- 10.40-11.10 **Coffee break**

- 11.10-11.30 **Manuela Magliocchetti**
INAF/OATS/ESO, DE
Clustering properties and masses of star-forming galaxies at $z \sim 2$: the Spitzer view (short talk)
- 11.30-11.50 **Alain Omont**
IAP Paris, FR
Millimetre detection of Spitzer selected hyperluminous infrared starburst galaxies (short talk)
- 11.50-12.10 **Manuel Aravena**
MPIR Bonn, DE
Properties of MAMBO sources in the COSMOS field (short talk)
- 12.15 Lunch

Session 4: Predictions for New Infrared-mm Surveys (II)

Chair: **Dave Alexander**, Durham University, UK

- 16.00- 16.30 Coffee break
- 16.30-17.00 **Matthew Jarvis**
University of Hertfordshire, UK
AGN predictions
- 17.00-17.20 **Kevin Schawinski**
Oxford University, UK
Observing AGN feedback in action in early-type galaxies (short talk)
- 17.20-17.40 **Johannes Staguhn**
NASA/Goddard Space Flight Center, US
GISMO, a 2 mm Bolometer Camera Optimized for the Study of High Redshift Galaxies (short talk)
- 17.40-18.00 **Brent Groves**
Leiden Observatory, NL
The IR continuum of the narrow line region in AGN (short talk)
- 18.10-19.30 Dinner & Poster Session
- 19.30-19.50 **Dieter Lutz**
MPE Garching, DE
IRS view of distant infrared galaxies and quasars (short talk)
- 19.50-20.10 **Desika Narayanan**
University of Arizona, US
The nature of CO emission from the first quasars (short talk)
- 20.10-20.30 **Elisabetta Valiante**
MPE Garching, DE
A mid-infrared spectroscopic study of sub-mm galaxies: luminous starbursts at high redshift (short talk)
- 20.30-20.50 **Edwin Valentijn**
University of Groningen, NL
Upcoming Surveys with OmegaCAM at VLT Survey telescope (short talk)

Tuesday 27 March

Session 5: Connections with other Wavelengths (I)

Chair: **Sebastian Oliver**, Sussex University, UK

- 09.00-09.30 **Thomas Greve**
CalTech, US
Connections to radio wavelengths
- 09.30-10.00 **David Alexander**
Durham University, UK
Connections to X-ray wavelength
- 10.00-10.20 **Itziar Aretxaga**
INAOE Puebla, MX
Photometric redshift estimates for sub-mm galaxies (short talk)
- 10.20-10.40 **Catherine Vlahakis**
University of Bonn, DE
The FIR-radio relationship at high and low redshifts (short talk)
- 10.40-11.10 Coffee break
- 11.10-11.40 **Marijn Franx**
Leiden Observatory, NL
Connections to near-IR wavelengths
- 11.40-12.00 **Michele Cirasuolo**
Edinburgh University, UK
Tracing the mass assembly history of galaxies up to $z=4$ (short talk)
- 12.00-12.20 **Will Sutherland**
Cambridge University, UK
Overview of VISTA and its Public surveys (short talk)
- 12.30 Lunch

Session 6: Connections with other Wavelengths (II)

Chair: **Priyamvada Natarajan**, Yale University, US

- 16.00- 16.30 Coffee break
- 16.30-17.00 **Richard Bouwens**
UC Santa Cruz, US
Connections to optical wavelengths
- 17.00-17.20 **Andrew Bunker**
University of Exeter, UK
Star forming galaxies at $z\sim 6$ and beyond: implications for reionization (short talk)
- 17.20-17.40 **Ross McLure**
Edinburgh University, UK
The galaxy mass function at $z>5$ from the UKIDSS UDS survey (short talk)
- 17.40-18.00 **Aprajita Verma**
University of Oxford, UK
Intense starbursts at redshift 5: the first star formation episodes in the progenitors of spheroids (short talk)

- 18.00-18.20 **Kim Nilsson**
NBI Copenhagen, DK
ELVIS: emission line galaxies with VISTA survey (short talk)
- 18.30 Dinner
- 19.30 Free time – possibility of night-time skiing (weather depending)

Wednesday 28 March

Session 7: Legacy Surveys

Chair: David Elbaz, CEA Saclay, FR

- 09.00-09.30 **Sebastian Oliver**
University of Sussex, UK
Surveys with Herschel
- 09.30-10.00 **Paul van der Werf**
Leiden Observatory, NL
Surveys with SCUBA-2
- 10.00-10.20 **Mattia Vaccari**
University of Padova, IT
The FIR and sub-mm view on galaxy formation and evolution: from Spitzer & SCUBA to Herschel & SCUBA2 (short talk)
- 10.20-10.40 **Tim Waskett**
Cardiff University, UK
Getting the most out of Herschel-SPIRE: simulations of high-z surveys (short talk)
- 10.40-11.10 Coffee break
- 11.10-11.40 **David Hughes**
INAOE Puebla, MX
Surveys with other mm/sub-mm instruments
- 11.40-12.00 **Loretta Dunne**
University of Nottingham, UK
A combined Herschel+SCUBA2 Cosmology Legacy Survey (short talk)
- 12.15 Lunch

Session 8: The Nature of Galaxies (I)

Chair: Mark Halpern, University of British Columbia, CA

- 16.00- 16.30 Coffee break
- 16.30-17.00 **Mark Swinbank**
Durham University, UK
The physics of sub-mm galaxies
- 17.00-17.20 **Naveen Reddy**
NOAO Tucson, US
Spectroscopic determination of the infrared and bolometric LFs at z~2-3: implications for deep surveys (short talk)

- 17.20-17.40 **Giulia Rodighiero**
University of Padova, IT
Characterization of the far- and mid-IR population detected by ISO and Spitzer (short talk)
- 17.40-18.00 **Giovanna Temporin**
CEA Saclay, FR
Environmental dependence of dust-enshrouded star formation (short talk)
- 18.15-20.00 Get together & Conference Dinner
- 20.00-21.30 Round-table session with possible group discussions: data-model comparison strategies, source extraction, completeness and other issues.

Thursday 29 March

Session 9: The Nature of Galaxies (II)

Chair: Paul van der Werf, Leiden Observatory, NL

- 09.00-09.30 **Eelco van Kampen**
University of Innsbruck, AT
Proto-clusters and clustering
- 09.30-10.00 **Priyamvada Natarajan**
Yale University, US
Relation to dark matter
- 10.00-10.20 **Cesar Gonzalez-Garcia**
Universidad Autonoma de Madrid, ES
The kinematics of elliptical galaxies from dry mergers (short talk)
- 10.20-10.40 **Helmut Dannerbauer**
MPIA, DE
MAMBO 1.2mm observations of BzK selected star-forming galaxies at z~2 (short talk)
- 10.40-11.10 Coffee break
- 11.10-12.00 Forward Look Plenary Discussion: data politics, pipelines, data handling and availability and other business.
- 12.00 Lunch & departure

Abstracts, Posters & Short Oral Presentations

There will be no short talks other than those listed in the programme.

All abstracts are accepted for poster presentation.

Posters will be on display all day, with poster sessions after dinner.

Invited lectures are 25+5 minutes, contributed talks are 15+5 minutes.