

RESEARCH CONFERENCES

ESF-FWF Conference in Partnership with LFUI

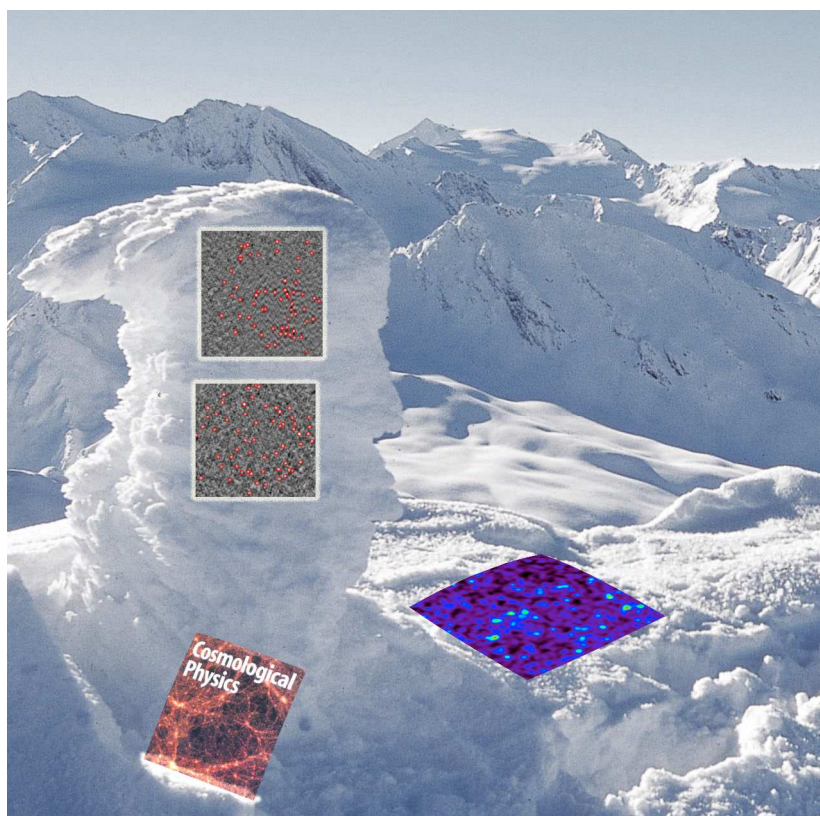
The Origin of Galaxies: Lessons from the Distant Universe

Universitätszentrum Obergurgl (Ötz Valley, near Innsbruck) • Austria
12-17 December 2009

Chair: Eelco van Kampen, LFUI, Innsbruck, AT

Co-Chairs: Jim Dunlop and John Peacock, University of
Edinburgh, UK

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Final Programme

Saturday 12

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

Sunday 13

08.45-09.00	Conference Opening by Eelco van Kampen , LFUI And Dr. Morris Aizenmann , National Science Foundation, US and ESF Rapporteur
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Session 1: Galaxy formation and evolution: theoretical context

Chair: Eelco van Kampen

09.00-09.40	Ben Moore University of Zuerich, CH <i>Galaxy formation - is the end in sight?</i>
09.40-10.20	Kentaro Nagamine University of Nevada, US <i>Galaxy formation in cosmological SPH simulations</i>
10:20-10:40	Juan Esteban Gonzalez ESO, DE <i>Modelling galaxy evolution in the IR and sub-mm</i>
10.40-11.10	Coffee break
11.10-11.30	Chiara Tonini University of Portsmouth, UK <i>The first galaxy formation model including the TP-AGB stellar phase: basic revision of the mass-luminosity relation</i>
11:30-11:50	Bruno Henriques University of Portsmouth, UK <i>The impact of stellar population synthesis on the evolution of the K- band LF in semi-analytical models of galaxy formation</i>
11:50-12:10	Elisabetta Valiante University of British Columbia, CA <i>A backward evolution model for infrared surveys: a key for BLAST and Herschel data interpretation</i>

12:10-12:30
Alessandra Lamastra
Astronomical Observatory of Rome, IT
The building up of the black hole mass-stellar mass relation

12.30 Lunch

15:30-16.00 Coffee break

Session 2: Galaxies from $z=0$ to $z=5$

Chair: Sandra Faber (before dinner) and Ross McLure (after dinner)

16.00-16:20
Olivier le Fevre
Laboratoire d'Astrophysique de Marseille, FR
The VVDS Ultra-deep spectroscopic survey to $L_{AB}=24.75$: the different populations of galaxies in $1.5 < z < 6.6$

16:20-16:40
Mike Hudson
University of Waterloo, CA
The star formation histories of red galaxies

16:40-17:00
Joaquin Vieira
University of Chicago and California, US
A new population of extragalactic mm sources discovered by the SPT

17:00-17:20
Christopher Conselice
University of Nottingham, UK
The GOODS NICMOS Survey: Observing massive galaxies at $z > 2$

17:20-17:40
Filippo Mannucci
Istituto Nazionale di Astrofisica, IT
Mass and metallicity evolution of $z > 3$ galaxies

17:40-18:00
Alessio Gnerucci
Università degli Studi di Firenze, IT
High- z galaxy masses from spectroastrometry

18:00 Dinner

19:30-19:50
Sandra Faber
University of California, US
Science achievements of the DEEP2/AEGIS surveys

19:50-20:10
Olivier Ilbert
University of Provence, FR
Tracing the stellar mass assembly and SFR with the Spitzer/COSMOS survey

20:10-20:30

Caitlin Casey

IoA, Cambridge University, UK

Confirming a Population of Hot-Dust Dominated, Star-Forming Ultraluminous Galaxies at high-z

20:30-20:50

Paola Santini

Astronomical Observatory of Rome, IT

How do galaxies accrete their mass? Quiescent and star-forming massive galaxies at high redshifts

20:50-21:10

Elizabeth Stanway

University of Bristol, UK

UV-luminous starburst galaxies as pointers to LSS in the early universe

Monday 14

Session 3: The ultra high-z universe

Chair: Jim Dunlop

9.00-9:40

Ross McLure

Edinburgh University, UK

Galaxies at $z=5-8$

09:40-10:00

Rychard Bouwens

University of California, US

Galaxies at $z=7-8$

10:00-10:20

Andrea Grazian

Astronomical Observatory of Rome, IT

Evidence for a fast evolution of the UV LF beyond $z\sim 6$ from a wide and deep HAWK-I survey

10:20-10:30

Short discussion

10:30-11:00

Coffee break

11:00-11:40

Masami Ouchi

Carnegie Institution of Washington, US

$z>6$ Lyman-alpha emitters

11:40-12:00

Benjamin Clement

Laboratoire d'Astrophysique de Marseille, FR

Probing the high-z Ly-alpha LF using direct spectroscopic and narrow-band imaging surveys

12:00-12:20

Marusa Bradac

University of California, US

Focusing Cosmic Telescopes: Observing $z\sim 7$ Universe behind the Bullet Cluster

12.30

Lunch

15:30-16:00 Coffee break

Session 4: AGN & feedback

Chair: Laura Silva

- 16:00-16:40 **Paola Andreani**
European Southern Observatory, DE
AGN observations with current and future submm/mm facilities
- 16:40-17:20 **Rachel Sommerville**
A STScI / JHU, US
The role of feedback on galaxy formation models
- 17:20-17:40 **Chris Willott**
Herzberg Institute of Astrophysics, CA
Efficient black hole growth in the early universe
- 17:40-18:00 **Joshua Younger**
Institute for Advanced Study, US
The AGN-starburst connection in sub-mm galaxies
- 18:00-18:20 **Alejo Martinez-Sansigre**
University of Oxford, UK
Cool dust in high-redshift obscured quasars
- 18:20-18:40 **Luigi Spinoglio**
INAF,FSI-Roma, IT
Spitzer high-resolution spectroscopy of Seyfert galaxies
- 19:00 Get-together & Conference Dinner

Tuesday 15

Session 5: Long wavelength

Chair: Linda Tacconi (morning) and Steve Rawlings (afternoon)

- 8:40-9:20 **Laura Silva**
INAF OAT, IT
Galaxy dust models
- 9:20-09:40 **Elodie Giovannoli**
Laboratoire d'Astrophysique de Marseille, FR
SED modelling of LIRGs, from UV to 70 microns
- 9:40-10:20 **Desika Narayanan**
Harvard Smithsonian Center for Astrophysics, US
The Infrared Galaxy Zoo at z~2: Physical Models and Number Counts of High-z ULIRGs

- 10:20-10:40
Erin Mentuch
University of Toronto, CA
Spitzer observations of a near-infrared excess in high-redshift galaxies
- 10:40-11:10
Coffee break
- 11:10-11:30
Lucia Marchetti
University of Padova, IT
Spitzer's wide-area view on galaxy formation & evolution: matching infrared and optical extragalactic surveys and the Spitzer-SDSS database
- 11:30-11:50
Scott Chapman
University of Cambridge, UK
Astrophysical diagnostics and clustering from UV spectra of a sample of 200 SMGs at $\langle z \rangle = 2.2$
- 11:50-12:10
Filiberto Braglia
University of British Columbia, CA
The star-formation activity of galaxy clusters observed in the sub-mm with BLAST
- 12:10-12:30
Vandana Desai
Spitzer Science Center, US
Dust Obscured Galaxies (DOGs) at $z=2$ in the NDWFS Bootes Field
- 12:30
Lunch
- 15:30-16:00
Coffee break
- 16:00-16:40
Jim Dunlop
University of Edinburgh, UK
SHADES and the SCUBA2 Cosmology Legacy Survey
- 16:40-17:00
Itziar Aretxaga
INAOE, MX
AzTEC blank field surveys of the extragalactic sky
- 17:00-17:20
Seb Oliver
University of Sussex, UK
The Herschel HeRMES survey
- 17:20-17:40
Dave Clements
Imperial College, UK
The Herschel ATLAS survey
- 17:40-18:00
Aaron Robotham
University of St Andrews, UK
The GAMA-HATLAS database
- 18:00-19:30
Dinner

19:30-20:10

Mark Halpern

University of British Columbia, CA
BLAST extragalactic surveys

20:10-20:50

Ed Chapin

University of British Columbia, CA
BLAST 250--500um and LABOCA 870um observations of the extended CDFS

20:50-21:10

Marco Viero

University of Toronto, CA
Clustering measurements with BLAST, and how it applies to Herschel and Planck

Wednesday 16

Session 6: Line emission (sub-mm) astrophysics

Chair: Mark Halpern

8:40:9:20

Linda Tacconi

MPE, DE
CO observations of high-redshift galaxies

09.20-10:00

David Hughes

Instituto Nacional de Astrofisica Optica y Electronica, MX
Sub-mm spectroscopy with the LMT

10:00-10:20

Fabian Walter

Max Planck Institute of Astronomy, DE
Molecular gas at high-redshifts

10:20-10:40

Alan Duffy

University of Western Australia, AU
The evolution of neutral hydrogen to $z=2$

10.40-11.10

Coffee break

Session 7: The future

Chair: Mark Halpern (before lunch) and Masami Ouchi (after lunch)

11.10-11.50

Grant Wilson

University of Massachusetts, US
4 sq-degrees of AzTEC surveys for Submillimeter Galaxies - Lessons Learned and Future Prospects

11.50-12:30

Steve Rawlings

University of Oxford, UK
High-redshift studies with ALMA

12:30

Lunch

15.30-16.00

Coffee break

- 16:00-16:40 **Eelco van Kampen**
ESO, DE
Future modelling efforts
- 16:40-17:00 **Rogier Windhorst**
Arizona State University, US
How the JWST will measure first light, reionization, and galaxy assembly
- 17:00-17:20 **Aparajita Verma**
University of Oxford, UK
First light and high-z galaxies: approaching the end of reionization with the E-ELT
- 17:20-17:40 **Kai Noeske**
Harvard-Smithsonian Center for Astrophysics, US
Prospects for a comprehensive history of galaxy assembly to $z=6$: Deep multi-wavelength surveys and the Spitzer Extended Deep Survey
- 17:40-18:00 **Johannes Staguhn**
NASA/Goddard Space Flight Center, US
GISMO
- 18:00 Dinner
- 19:30-20:10 **Richard Ellis**
California Institute of Technology , US
Conference summary and the TMT
- 20:10-21:00 **Forward-look session:**
Discussion on best strategies for follow-up observations in the various wavebands

Day 6

Breakfast & Departure

Abstracts, Posters & Short Oral Presentations

Poster will be displayed in the conference room for its entire duration.

1.	Ammons	Mark	The participation of AGN in the quenching of red-sequence galaxies
2.	Banerji	Manda	Observations of the High-Mass End of the Stellar Mass Function and Theoretical Predictions for the Stellar IMF
3.	Blecha	Laura	Wandering Black Holes in Merging Galaxies
4.	Boutsia	Konstantina	A Wide and UltraDeep survey for LBG at $z=3$: the slope of the UV luminosity function
5.	Christopher	Natalie Maria	The diverse properties of Luminous Infrared Galaxies
6.	Conversi	Luca	Extracting cosmological signals from foregrounds in deep mm maps of the sky
7.	Ferreras	Ignacio	The evolution of massive Early-type galaxies
8.	Gilbank	David	The star-formation properties of dwarf galaxies at $z\sim 1$
9.	Hayward	Christopher	Calibrating and testing star formation rate indicators using galaxy merger simulations and radiative transfer
10.	Ho	Shirley	The signature of Baryon Acoustic Oscillations and Primordial Non-gaussianities on Lyman-alpha forest
11.	Hopwood	Rosalind Helen	Deep AKARI 15 micron mapping of the gravitational lensing cluster Abell 2218
12.	Jachym	Pavel	Role of ram-pressure stripping in the evolution of cluster galaxies
13.	Michalowski	Michal	Cosmic evolution of sub-mm galaxies and their contribution to stellar mass assembly
14.	Tasca	Lidia	Morphological build-up and spectrophotometric properties of galaxies with $1.4 < z < 3$ from zCOSMOS
15.	Vergani	Daniela	Resolved kinematic survey of $z\sim 1$ galaxies from rest-frame optical emission lines: first results of MASSIV survey
16.	Wilkins	Stephen	A discrepancy in stellar mass estimates: evidence for evolution of the IMF
17.	Zeballos	Milagros	AzTEC cluster evolution survey (ACES): studying the formation and evolution of galaxy clusters using mm observations