

REPORT ON THE RADIOPERSON3 NETWORKING ACTIVITY

TITLE:

3D2014: GAS AND STARS IN GALAXIES: A MULTI-WAVELENGTH 3D PERSPECTIVE

DATE: MARCH 10-14, 2014 **TIME:** (WHOLE DAY)

LOCATION: GARCHING, GERMANY

MEETING WEBPAGE <https://www.eso.org/sci/meetings/2014/3D2014/>

HOST INSTITUTE: ESO

PARTICIPANTS NO: 202

MAIN LEADER: ESO

REPORT:

1. Programme of the meeting

See attached

2. Scientific Summary

This is the second ESO/Radionet3 workshop devoted to 3D optical/near-infrared and sub-mm/radio observations of gas and stars in galaxies. The last one took place in 2008.

Our ability to test ΛCMD model quantitatively, relies on our ability to exploit technology – in fast computers for large high dynamic-range simulations (GPUs; Fluke), in advanced data visualization techniques (Fluke, Ott, van der Hulst, Koribalski), in robust and efficient algorithms, in sensitive detectors, in efficient instruments, and in building large aperture space and ground-based telescopes (Bershady, Braun). The meeting six years ago took place during what is in many ways the infancy of 3D technology, especially in the optical and near-infrared and advanced visualization techniques (Fluke). It is true by its very definition, interferometry is 3-dimensional but even in the radio, the world is now a richer place with the advent of focal plane arrays for single dish telescopes and interferometers (i.e. APERITIF). The capabilities of ALMA with its wide frequency coverage both overall and in single observations, with the increasing band pass of instruments like the Plateau de Bure interferometer, the octave wavelength coverage of both KMOS and MUSE, the high efficiency, better than that of long slit spectrometers, of MUSE means that the term “3D spectroscopy” is soon to become an anachronism – no longer a distinction but the norm. There will be no longer any need to use a radio telescope that only has a single beam or an optical/near-IR spectrometer that does not have a 3-D capability. Moreover, these new instruments and facilities, as well as giving new life to older facilities, is leading to a convergence of multi-wavelength studies, especially blind spectroscopic surveys, and studies of nearby galaxies and local and distant clusters. The instantaneous field of view of ALMA and MUSE or the region sampled by KMOS by putting its individual integral field units together are all approximately the same. Multi-wavelength observations are becoming well-matched.

In this meeting, the focus was on science exploitation of the ESO telescopes and instruments, studying problems at the dawn of the era of ALMA as an important research tool, and on the science from HI absorption and emission line surveys and the potential of SKA and its precursors (Braun). In particular, we hosted mini-workshops on the characteristics of and data analysis for ALMA (Laing), KMOS (Sharples), and MUSE (Bacon), lead by experts in each of these instruments. While the future is now for ALMA, we had glimpses of the potential of both KMOS and MUSE to lead to real breakthroughs in our understanding of ΛCMD and galaxy formation and evolution. This conference gave the community a chance to learn about these phenomenal new instruments and facilities. But of course, we are not limited to those facilities only; there is a whole plethora of available and future facilities on the ground and in space in the UV, optical, and near-infrared using old and new technology (Bershady). These facilities allow us to study old problems in new ways and because of their significant observing capabilities, whether in their efficiency or in opening new domains in wavelength or sensitivity, this new technology allows us to dream of solving long-standing astrophysical questions and will undoubtedly lead us to propose new, but better framed and more significant questions about the universe in which we live.

Of the ~200 participants, 70% came from Europe, 10% from the US, 7% from Australia. Of all contributed and invited presentations, 41% were given by female speakers.



3. Attendance list (incl. participant names, affiliation and country) signed by the participants and confirmed by the organizer

See attached

4. Financial Report / RadioNet3 contribution

RadioNet3 contributed 5000 euro to this meeting. This money was used exclusively for hotel costs of invited speakers and other participants that indicated a need for financial support. The following people were supported:

Jorge Barrera-Ballesteros (Spain)
Simone Bekeraite (Germany)
Javier Blasco Herrera (Spain)
Martin Bureau (UK)
Stefano Carniani (Italy)
Chris Fluke (Australia)
Jackie Hodge (US)
Bethan James (UK)
Alexei Moiseev (Russia)
Alvio Renzini (Italy)
Frederic Vogt (Australia)

Masami Ouchi (Japan)
George Privon (US)
Eduardo Telles (Brazil)
Aditya Togi (US)
Peter Maksym (US)
George Koshy (US)
Minju Lee (Japan)
Matt Lehnert (Spain)
Francisco Muller-Sanchez (US)
Lourdes Verdes Montenegro (Spain)
Javier Zaragoza-Cardiel (Spain)

5. Conference Proceedings and Web page

All presentations are available at <https://www.eso.org/sci/meetings/2014/3D2014/program.html>.
(There will be no published proceedings.)



Scientific Programme

Program Overview

- [Monday 10th March](#)
- [Tuesday 11th March](#)
- [Wednesday 12th March](#)
- [Thursday 13th March](#)
- [Friday 14th March](#)
- [Poster presentations](#) (displayed throughout the meeting)
- [Workshops Programme](#)
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Sunday, 9th March (evening)

18:00 - 20:00

Welcome reception and registration at the Rathaussaal in Garching

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Monday, 10th March

08:00-12:00 - Continued Registration at Conference Venue

Session 1 - Chair: M. Cappellari

08:30	Welcome	
08:40	Emsellem, Eric	Overview of integral field unit techniques: optical and NIR (PDF)
09:15	Koribalski, Bärbel	Overview of 3D radio techniques (PDF)

Nearby universe:

09:50	Leroy, Adam	A 3D, Long Wavelength View of Local Starbursts - M82, NGC 253, the Antennae, and Arp 220
10:15	Schruba, Andreas	The 3D Perspective on the Interstellar Medium and Star Formation Process in the Andromeda Galaxy (PDF)
10:30	Break	

Session 2 - Chair: Thijs van der Hulst

11:00	Crocker, Alison	Gas Cooling and Metal Abundances in Local
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		Galaxies with KINGFISH (PDF)
11:25	Druard, Clement	The IRAM M 33 CO(2-1) Survey
11:40	Meidt, Sharon	Dynamically regulated star formation: the role of gas flows on ISM structure (PDF)
12:05	Belfiore, Francesco	The resolved mass-metallicity relation and its dependance on gas mass content
12:20	Zschaechner, Laura	Observations and Kinematic Modeling of Neutral Hydrogen in Spiral Galaxies: Implications for Disk-Halo Flows and Accretion
12:35	Lunch	
Session 3 - Chair: E. Emsellem		
14:15		<p><i>Highlight talk session 1 (PDF)</i></p> <ul style="list-style-type: none"> • <i>Yildiz, Mustafa: Star Formation in the Outer Regions of Early Type Galaxies</i> • <i>Hilker, Michael: Large scale 3D kinematics of the Hydra galaxy cluster core - using FORS2/MXU observations as a coarse "IFU"</i> • <i>Jimmy: Angular Momenta, Dynamical Masses, and Mergers of Brightest Cluster Galaxies</i> • <i>Weijmans, Anne-Marie: The intrinsic shape distribution of early-type galaxies</i> • <i>Guerou, Adrien: Pinning down the origin of early-type dwarfs with IFU data</i>
14:40	Naab, Thorsten	Two-dimensional kinematic analysis of simulated galaxies and the cosmological origin of fast and slow rotators
14:55	Bureau, Martin	Molecular Gas Kinematics in Atlas3D Galaxies (PPTX)
15:20	Cappellari, Michele	Integral-field view of early-type galaxies from Atlas3D (PDF)
15:45	Break	
Session 4 - Chair: M. Bershady		
16:15		<p><i>Highlight talk session 2 (PDF)</i></p> <ul style="list-style-type: none"> • Zibetti, Stefano: Galaxy stellar masses: what can we gain from a 3D perspective? • Jozsa, Gyula: Constraining the 6D structure of galactic HI disks • Opitsch, Michael: Kinematics and dynamics of M31 • Morelli, Lorenzo: Dating the formation of the counter-rotating stellar disc in the spiral galaxy NGC 5719 by disentangling its stellar

- populations.
- Blasco-Herrera, Javier: The kinematics of isolated galaxies
 - Zaragoza-Cardiel, Javier: Condition for star formation triggering in interacting galaxies
 - Moiseev, Alexei: Ionized gas kinematics of dwarf galaxies: 3D spectroscopic view with scanning FPI.
 - Maksym W. Peter: A 3D Perspective on Extended Emission Line Regions from the Galaxy Zoo

16:45	Serra, Paolo	H I discs in real and simulated fast- and slow rotators (Key)
17:00	Colless, Matthew	The Fundamental Plane in 3D from 6dF and SAMI (PDF)
17:15	Coccato, Lodovico	Kinematic decoupling in galaxies: Dissecting Kinematics and Stellar Populations with 3D spectroscopy.
17:30	Feldmeier, Anja	The Milky Way Nuclear Star Cluster Beyond 1 pc (PDF)
17:45	Neumayer, Nadine	Gas and stars in nearby nuclear star clusters (PPTX)
18:00 End of Day		

Tuesday, 11th March

Session 1 - Chair: E. Sadler

Visualisation:

08:30	Fluke, Christopher	Transformational technologies for three-dimensional visualisation (PDF)
08:55	Ott, Juergen	Visualizing 3D optical and radio data (PDF)
09:20	van der Hulst, Thijs	Challenges in characterization and visualisation of 3D data (PDF)
09:35	Koribalski, Bärbel	3D Visualisation of gas and stars in galaxies (PDF)

Nearby Galaxies (Surveys):

09:50	Konstantopoulos, Iraklis	A Deep Look at Star Formation and its Dependence on Super-Galactic Environment (PDF)
10:05	Blanc, Guillermo	VENGA: The VIRUS-P Exploration of Nearby Galaxies (PPTX)
10:20		<p>Highlight talk session 3 (PDF)</p> <ul style="list-style-type: none"> • Punzo, Davide: Visualization and modelling of H I in galaxies • Giese, Nadine: Nonparametric

		<p>characterisation of 3D data</p> <ul style="list-style-type: none"> • Sanchez, Sebastian: CALIFA: Mid-term report
10:30	Break	
Session 2 - Chair: R.-J. Dettmar		
11:00	van de Ven, Glenn presented by Mariya Lyubenova	CALIFA galaxy dynamics across the Hubble sequence (PDF)
11:25	Sanchez-Blazquez, Patricia	3D stellar populations properties of nearby disk galaxies with CALIFA. Lessons to learn from IFS studies (PPTX)
11:50	Fogarty, Lisa	The SAMI Galaxy Survey. (PPTX)
12:15		<p><i>Highlight talk session 4 (PDF)</i></p> <ul style="list-style-type: none"> • Bekeraite, Simona: Towards an unbiased Tully-Fisher relation from CALIFA survey stellar velocity field • Barrera-Ballesteros, Jorge: Stellar and ionized gas kinematics across major mergers: the CALIFA perspectives • Allen, James: Signatures of quenching in SAMI cluster galaxies • Scott, Nic: The Fundamental and Mass Planes for three nearby clusters from the SAMI Pilot Survey • Yan, Renbin: Mapping Nearby Galaxies at APO (SDSS-IV/MaNGA)
12:45	Lunch	
Session 3 - Chair: P. Andreani		
User workshop introductions (30min each):		
14:00	Laing, Robert	ALMA user workshop introduction - ALMA status and 3D capabilities (PDF)
14:25	Sharples, Ray	KMOS user workshop introduction (PDF)
14:50	Bacon, Roland	MUSE user workshop introduction - First commissioning results from MUSE
15:15	Relocation of participants to user workshop rooms	
15:25	3 hours <u>User workshops</u> incl. one coffee break	
18:25 End of Day		

Session 1 - Chair: M. Bureau

Nearby galaxies (dynamics of spirals):

08:30	Verheijen, Marc	Weighing galaxy disks by combining optical IFU and 21cm radio data.
08:55	Martinsson, Thomas	The distribution of luminous and dark matter in spiral galaxies from 3D IFU and 21-cm radio observations (PDF)
09:10	Obreschkow, Danail	Angular Momentum in Spiral Galaxies
09:25	Chemin, Laurent	3D multi-wavelength data at the service of 2D mass distribution modeling of nearby spiral galaxies (PDF)
09:40	Conroy, Charlie	The Formation and Evolution of Galaxies via Stellar Population Synthesis (PPTX)
10:05		<p><i>Highlight talk session 5 (PDF)</i></p> <ul style="list-style-type: none"> Privon, George: Dynamical Models of Galaxy Mergers as a Tool to Constrain Star Formation Models Gallazzi, Anna: Local-scale relations between stellar populations and mass density of nearby galaxies Reeves, Sarah: HI emission- and absorption-line observations of nearby, gas-rich galaxies James, Bethan: Spatially resolved chemodynamics of the Lyman Break analogue, Haro11 Kelz, Andreas: Resolved stellar populations in the Milky Way and beyond - a perspective from the VLT to the E-ELT Kyoko, Onishi: Black-hole Mass Estimation of NGC 1097 with ALMA Cycle0 Data
10:40	Break	

Session 2 - Chair: R. Bender

Interacting galaxies:

11:10	Hopkins, Phil	Galaxies on FIRE: Stellar Feedback Explains Inefficient Star Formation
11:35	Moreno, Jorge	Virtual IFUs with Hydrodynamical Merger Simulations (KEY)
11:50	Ueda, Junko	Probing the evolution of merger remnants through formation of cold molecular gas disks (PPTX)
12:05	Sandstrom, Karin	Molecular Gas and Star Formation in the Centers of Nearby Galaxies (PDF)
12:20	Kreckel, Kathryn	A far-IR and optical 3D view of the starburst driven superwind in NGC 2146 (PDF)

12:35	Haan, Sebastian	Measuring the movement of galaxies through the IGM in 3D (PPT)
12:50	Lunch	

Session 3 - Chair: R. Laing

AGN / Black Holes:

14:25	Gillessen, Stefan	The Galactic Center SINFONI: A stellar Ballet and a gaseous Scherzo
14:50	Davis, Timothy	Dynamical black-hole mass measurements with 3D molecular gas interferometry (PDF)
15:05	Fathi, Kambiz	Reconciling galactic dynamics and kinematics of nuclear spirals (KEY)
15:20	van den Bosch, Remco	Super-massive Black holes in Compact Galaxies (PDF)
15:35	Toshiki, Saito	Investigating AGN/starburst activities through ALMA multi-line observations in the mid-stage IR-bright merger VV114 (PDF)
15:50	Break	

Session 4 - Chair: P. Padovani

16:25		<i>Highlight talk session 6 (PDF)</i> <ul style="list-style-type: none"> • Carniani, Stefano: AGN outflow at redshift z=2.5 • Sadler, Elaine: A search for HI absorption in young compact radio galaxies • Husemann, Bernd: Probing the QSO-host galaxy connection with 3D spectroscopy • Burtscher, Leonard: Possible evidence for the disappearance of the AGN torus at low luminosities a • Scharwaechter, Julia: 3D view on ionized gas in Seyfert galaxies
16:45	Hicks, Erin	Identifying Seyfert AGN Fueling Mechanisms (PDF)
17:00	Mahony, Elizabeth	Evidence for jet-driven outflows of cold gas: the case of 3C293 (PPTX)
17:15	Cicone, Claudia	Powerful Quasar-Feedback in Local and Distant Galaxies
17:30	Muller-Sanchez, Francisco	The Impact of AGN Feedback in the Evolution of Seyfert Galaxies (PDF)
17:45	Overzier, Roderik	A common origin for the spatially extended emission line gas in Ly-alpha Blobs, Quasars and Radio Galaxies (PDF)

18:00 **End of Day**

Evening: Conference dinner at Neuwirt, Garching

Thursday, 13th March

Session 1 - Chair: D. Iono

High redshift:

08:30	Förster Schreiber, Natascha	Galaxy growth at early times from 3D studies (PDF)
08:55	Sobral, David	The dynamics and evolution of H-alpha selected star-forming galaxies since $z=2.23$ with KMOS and SINFONI (PDF)
09:10	Fernando, Buitrago	SINFONI/VLT 3D spectroscopy of massive galaxies: Evidence of rotational support at $z\sim 1.4$ (PDF)
09:25	Puech, Mathieu	Rebuilding Discs With Gas-Rich Major Mergers (PPT)
09:40	Bouché, Nicolas	A 3D view on accretion and outflows around star-forming galaxies
10:05	Péroux, Celine	Probing Gas Flows around Galaxies with SINFONI and X-Shooter (PDF)
10:30	Break	

Session 2 - Chair: M. Colless

11:00		<p><i>Highlight talk session 7 (PDF)</i></p> <ul style="list-style-type: none"> Rettura, Alessandro: The KMOS IFU spectroscopy of galaxy clusters at $0.8 < z < 1.5$ Mendel J., Trevor: The VIRIAL survey - a deep look at quiescent galaxies with KMOS Mendel J., Trevor (for Houghton, Ryan): First results from the GTO KMOS cluster program: the stellar populations of $1 < z < 2$ cluster galaxies from rest-frame V-band indices Richard, Johan: Distant lensed galaxies through 3D spectroscopy Lee, Minju: The characteristics of dusty starburst galaxies in the proto-cluster around radio galaxy 4C23.56 Troncoso, Paulina: Metallicity evolution, metallicity gradients and gas fractions at $z\sim 3.4$
11:40	Bournaud, Frédéric	The link between cosmological gas reservoirs, high-redshift disk instabilities, and star formation and black hole growth
12:05	Saintonge, Amélie	Cold gas as a probe of galaxy evolution
12:30	Aravena, Manuel	The properties of the ISM of the dusty star-forming galaxies at $z=2-6$ discovered by the SPT (PPTX)
12:45	Lunch	

Session 3 - Chair: C. Peroux

14:15	Hodge, Jacqueline	Resolved studies of gas in high-z galaxies (PDF)
14:40	Williams, Rebecca	ALMA reveals a rotating [CII] disk in a gas rich galaxy at $z=4.76$ (PPTX)
14:55	Venemans, Bram	ALMA observations of $z>6.5$ quasar hosts: massive galaxy formation in the epoch of reionisation (PDF)
15:10	Relocation of participants to user workshop rooms	
15:20	3 hours User workshops incl. one coffee break	
18:20 End of Day		

Friday, 14th March		
Session 1 - Chair: A. Marconi		
High redshift galaxies:		
08:30	Maiolino, Roberto	Star formation and AGN feedback in 3D
08:55	Cirasuolo, Michele	Unveiling the high redshift Universe with a KMOS Deep Survey (PPTX)
09:20	Sharon, Chelsea	Resolved Molecular Gas Excitation and the Connection to Population Averages in High-z Galaxies
09:35	Wuyts, Stijn	Resolved stellar populations, bulge growth and quenching since cosmic noon (PDF)
09:50	Ouchi, Masami	Early Galaxy Formation Uncovered by ALMA, HST, and Subaru Surveys
10:15	Wisnioski, Emily	The Evolution of Resolved Kinematics and Star-Formation from Redshift 0.7 to 2.5 (PDF)
10:30	Break	
Session 2 - Chair: N. Förster Schreiber		
11:00	Beifiori, Alessandra	Cluster galaxies at redshift $1 < z < 2$: first kinematic results from the KMOS-cluster program (PDF)
Deep Fields:		
11:15	da Cunha, Elisabete	The ALMA view of extragalactic deep fields
11:40	Decarli, Roberto	A molecular scan in the Hubble Deep Field North (PPTX)
11:55	Lilly, Simon	Deep Fields with MUSE: galaxies and the IGM (PPTX)
12:20	Lunch	
Session 3 - Chair: A. Renzini		
Future facilities:		
14:00	Bershady, Matthew	IFS Futures from ground and space (PDF)
14:40	Braun, Robert	3D Capabilities of the SKA, its Precursors and

Pathfinders ([PPTX](#))

15:20

Lehnert, Matt

Conference Summary ([PDF](#))

16:00 Bier und Brezen (Beer and pretzels)



3D2014: Gas and stars in galaxies: A multi-wavelength 3D perspective

Participants

Participants as of: 24/02/14

Participant		Organisation
Agudo Berbel	Alex	MPE
Allen	James	University of Sydney
Andreani	Paola Michela	ESO
Aravena	Manuel	ESO
Bacon	Roland	CRAL
Bandara	Kaushala	Max Planck Institute for Extraterrestrial Physics
Barrera-Ballesteros	Jorge	Instituto de Astrofisica de Canarias
Basto Pineda	JuanCarlos	Universidade de Sao Paulo/Heidelberg Institute For Theoretical Studies
Beifiori	Alessandra	LMU
Beirao	Pedro	LERMA - Observatoire de Paris
Bekeraitė	Simona	Leibniz Institute for Astrophysics Potsdam (AIP)
Belfiore	Francesco	University of Cambridge
Belloccchi	Enrica	CAB/INTA-CSIC
Bender	Ralf	MPE/USM
Bershady	Matthew	University of Wisconsin
Bethermin	Matthieu	ESO Garching
Blanc	GuillermoA.	Carnegie Observatories
Blasco-Herrera	Javier	Instituto Astrofisico de Andalucia
Bonzini	Margherita	ESO
Borisova	Elena	ETH Zurich
Bouche	Nicolas	IRAP
Bournaud	Frederic	CEA Saclay
Braun	Robert	SKA Org.
Bureau	Martin	University of Oxford
Burtscher	Leonard	MPE
Cappellari	Michele	University of Oxford
Carniani	Stefano	University of Florence
Cazzoli	Sara	CSIC-INTA
Chemin	Laurent	Laboratoire d'Astrophysique de Bordeaux
Cicone	Claudia	University of Cambridge
Cirasuolo	Michele	Royal Observatory Edinburgh

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Constituents	Matthew	Australian National University
Conroy	Charlie	UC Santa Cruz
Crocker	Alison	University of Toledo
da Cunha	Elisabete	Max Planck Institute for Astronomy
Davis	Timothy	ESO
De Breuck	Carlos	European Southern Observatory
de Blok	Erwin	ASTRON
Decarli	Roberto	MPIA
Dettmar	Ralf-Juergen	Ruhr-Universitaet Bochum
Dobrzycka	Danuta	ESO
Dreizler	Stefan	Institute for Astrophysics
Druard	Clement	Laboratoire d'astrophysique de Bordeaux
Emsellem	Eric	European Southern Observatory
Fathi	Kambiz	Stockholm University
Feldmeier	Anja	ESO
Fernando	Buitrago	University of Edinburgh
Fluke	Christopher	Swinburne University of Technology
Fogarty	Lisa	University of Sydney
Forster Schreiber	NataschaM.	MPE
Freudling	Wolfram	ESO/ Data Management and Operations Division
Gallazzi	Anna	INAF-Osservatorio Astrofisico di Arcetri
Genzel	Reinhard	MPE
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Gillessen	Stefan	MPE
Guerou	Adrien	ESO-Garching -University Paul Sabatier-Toulouse
Haan	Sebastian	CSIRO Astronomy & Space Science
Hicks	Erin	University of Alaska Anchorage
Hilker	Michael	ESO
Hodge	Jacqueline	NRAO
Hopkins	Philip	Caltech
Houghton	Ryan	University of Oxford
Husemann	Bernd	ESO
Hutton	Susan	Mullard Space Science Laboratory (UCL)
Iodice	Enrichetta	INAF-Astronomical Observatory of Capodimonte
Iono	Daisuke	NAOJ
Jaiswal	Sumit	Aryabhatta Research Institute of Observational Sciences (ARIES)
James	Bethan	Institute of Astronomy
Jimmy	.	Texas A&M University
Jones	Amy	University of Innsbruck
Jozsa	Gyulal.G.	ASTRON
Kamann	Sebastian	University of Goettingen
Kamphuis	Peter	CSIRO
Karabal	Emin	CEA-Saclay
Kelz	Andreas	Leibniz-Institut fuer Astrophysik Potsdam
Kendrew	Sarah	University of Oxford

Konstantopoulos	Iraklis	Australian Astronomical Observatory
Koribalski	Baerbel	Australia Telescope National Facility
Kovac	Katarina	ETH Zuerich
Kreckel	Kathryn	Max Planck Institute for Astronomy (MPIA)
Kuntschner	Harald	European Southern Observatory
Kyoko	ONISHI	The Graduate University for Advanced Studies (SOKENDAI) - NAOJ
Lagos	Claudia	European Southern Observatory
Laing	Robert	European Southern Observatory
Laesker	Roland	Max-Planck Institute for Astronomy
LEE	MINJU	University of Tokyo
Lehnert	Matthew	Institut d'Astrophysique de Paris
Leroy	Adam	National Radio Astronomy Observatory
Lilly	Simon	ETH Zuerich
Lundgren	Andreas	ALMA
Lyubenova	Mariya	Kapteyn Astronomical Institute (University of Groningen)
Lyskova	Natalya	MPA
Mahony	Elizabeth	ASTRON
Maier	Millicent	Australian Astronomical Observatory
Maiolino	Roberto	University of Cambridge
Mainieri	Vincenzo	ESO
Maksym	W.Peter	University of Alabama
Manriquez-Rangel	Alfredo	CRyA - UNAM
Marconi	Alessandro	University of Florence
Martinsson	Thomas	Leiden Observatory
Matos	Salome	Institute for Astronomy -University of Edinburgh
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Mazzalay	Ximena	MPE
Meidt	Sharon	MPIA
Mendel	J.Trevor	MPE
Moiseev	Alexei	Special Astrophysical Observatory
Monreal-Ibero	Ana	Leibniz-Institut fuer Astrophysik Potsdam (AIP)
Montillaud	Julien	UTINAM
Morelli	Lorenzo	Universita di Padova
Moreno	Jorge	University of Victoria & CITA
Muller-Sanchez	Francisco	University of Colorado -Boulder
Naab	Thorsten	Max-Planck-Institute for Astrophysics
Neeser	Mark	ESO/ Data Management and Operations Division
Neumayer	Nadine	European Southern Observatory
Obreschkow	Danail	University of Western Australia
Opitsch	Michael	Max Planck Institute for Extraterrestrial Physics (MPE)
Ott	Juergen	National Radio Astronomy Observatory
Ouchi	Masami	The University of Tokyo
Overzier	Roderik	Observatorio Nacional

Paulina Alejandra	Troncosolribarren	Universidad Católica de Chile
Peroux	Celine	Laboratoire d'Astrophysique de Marseille
Petry	Dirk	ESO/ Data Management and Operations Division
Piqueras Lopez	Javier	Centro de Astrobiologia (CAB INTA-CSIC)
Pizzella	Alessandro	University of Padua
Privon	George	University of Virginia
Puech	Mathieu	GEPI - Observatoire de Paris
Punzo	Davide	Kapteyn Institute
Ramsay	Suzanne	European Southern Observatory
Raouf Hajar Zarrin	Mojtaba	Institute for fundamental science Iran (IPM)
Reeves	Sarah	University of Sydney
Renzini	Alvio	INAF/ Osservatorio Astronomico di Padova
Retzlaff	Joerg	ESO/ Data Management and Operations Division
Rettura	Alessandro	JPL - Caltech
Richard	Johan	Centre de Recherche Astrophysique de Lyon
Richards	Anita	University of Manchester
Romanelli	Martino	ESO
Sadler	Elaine	University of Sydney
Saintonge	Amelie	UCL
Samal	Manash	Laboratoire d'Astrophysique de Marseille
Sanchez	SebastianF.	Instituto de Astronomia - Universidad Nacional Autonoma de Mexico
Sanchez-Blazquez	Patricia	Universidad Autonoma de Madrid
Sandstrom	Karin	University of Arizona
Santoro	Francesco	Kapteyn/ASTRON
Scharwaechter	Julia	Observatoire de Paris
Schruba	Andreas	MPE
Scott	Nic	University of Sydney
Selman	Fernando	European Southern Observatory
Serra	Paolo	CSIRO Astronomy and Space Science
Sharples	Ray	Durham University
Sharon	Chelsea	Cornell University
Slezak	Eric	Observatoire de la Cote d'Azur
Sliwa	Kazimierz	McMaster University
Sobral	David	Leiden University/CAAUL Lisbon
Soto	Kurt	ETH Zurich
Stanke	Thomas	ESO
Stoehr	Felix	ESO/ Data Management and Operations Division
Stroe	Andra	Leiden Observatory
Swinbank	Mark	Durham University
Tacconi-Garman	Lowell	ESO/ Data Management and Operations Division
Tadaki	Ken-ichi	NAOJ
Telles	Eduardo	Observatorio Nacional

Toshiki	Saito	University of Tokyo/NAOJ
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