

JCMT Users meeting Program

Outlined below is the program for the 2017 JCMT Users Meeting and workshop being held in Nanjing, China at the Golden Eagle International Hotel (Nanjing Jinying International Hotel). All talks are expected to be within 10 minutes to ensure time for 5 minutes of questions/discussion.

Please assist us with keeping to this program.

There will be a registration desk in the hotel lobby from 15:00 to 20:00 on Feb. 12. On Feb. 13 the registration desk will open at 8am during each break session and local staff will be in attendance to answer any questions you may have.

On behalf of the staff at EAO/JCMT and the Purple Mountain observatory we welcome you and thank you for coming to share you science and renew connections!

February 13th 2017

Location: Guohua Hall located on the 27th floor at the Golden Eagle International Hotel

Session 1: 9:00am - 9:30am Observatory status and update,

Session Chair: Harriet Parsons

- Jessica Dempsey - Welcome and JCMT Operations Update
- Harriet Parsons - The JCMT Large Programs

Session 2: 9:30am - 10:30pm Extragalactic Science

Session Chair: Xue-Jian Jiang

- 9:30 - Hao Chen - Dense gas in the disk of M51
- 9:45 - Lulu Fan - JCMT SCUBA2 follow-up of Hot dust-obscured galaxies
- 10:00 - Tianwen Cao - Molecular gas and Star-Formation in Low Surface Brightness Galaxies
- 10:15: Qian Jiao - Dust and Dense Gas in Merger Arp 299

10:30 - 11:00 Tea break & Support Scientist Chat & Posters!

Session 3: 11:00am - 12:30pm Extragalactic Science

Session Chair: Qinghua Tan

- 11:00 - Chris Wilson - SCUBA-2 observations of nearby galaxies
- 11: 15 - Qinghua Tan - Dense gas and star formation on sub-kiloparsec scale in nearby galaxies
- 11:30 - Feng Gao - JCMT pilot study of cold molecular gas in H₂O megamaser disk galaxies
- 11: 45 - Xinwen Shu - SCUBA-2 imaging a possibly overdensity of $z > 4$ extremely red massive galaxies behind lensing cluster MACS0429.6-0253
- 12:00 - Qiong Li - Dust Emission and Environment of The Most Distant Quasars at $5.6 < z < 7.1$
- 12:15 - **Extragalactic Science Poster Session** - attendees who have brought posters are encouraged to come up and discuss their poster for < 2 minutes.

12:30pm - 2:00pm Lunch - Dahua Cafe located on the 28th floor at the Golden Eagle International Hotel.

Session 4: 2:00pm - 3:30pm Galactic Science

Session Chair: Kate Pattle

- 2:00 - Ren Zhiyuan - Revealing the gas inflow into the Orion KL cold dense core
- 2:15 - Steve Mairs - From Clumps to Cores to Protostars: The Gould Belt Survey's First Look at Southern Orion A With SCUBA-2
- 2:30 - En Chen - Evidence of cloud-cloud collision in S235 molecular complex
- 2:45 - Kate Pattle - The BISTRO Survey: A Chandrasekhar-Fermi Analysis of the Magnetic Field Strength of OMC1
- 3:00 - Bhavana Lalchand - Identification of Brown Dwarfs in Young Star Cluster IC348
- 3:15 - **Galactic Science Poster Session** - attendees who have brought posters are encouraged to come up and discuss their poster for < 2 minutes.

3:30pm - 4:00pm Tea break & Support Scientist Chat & Posters!

Session 5: 4:00pm - 5:45pm Large programs and lessons learned

Session Chair: Harriet Parsons

- 4:00 - Wei-Hao Wang - STUDIES overview and status update
- 4:15 - Wei-Hao Wang - SC2-COSMOS overview and status update
- 4:30 - Ting Xiao - JINGLE
- 4:45 - Yu Gao - MALATANG
- 5:00 - Tie Liu - The "TOP-SCOPE" survey: Follow-up observations of Planck cold clumps with ground-based telescopes.
- 5:15 - Derek Ward-Thompson - The BISTRO Survey
- 5:30 - Doug Johnstone - The JCMT Transient Survey - One Year In

Meeting Banquet - 7pm in the Guohua Hall

End of first day

February 14th 2017

Location: Guohua Hall located on the 27th floor at the Golden Eagle International Hotel

Session 6: 9:00am - 10:30am Future directions

Session Chair: Tie Liu

- 9:00 - Ciska Kemper - Future science directions at the James Clerk Maxwell Telescope
- 9:15 - Naomi Hirano - SMA/ASIAA
- 9:30 - Keping Qiu - SMA + JCMT survey of massive cores in Cygnus-X
- 9:45 - Shih-Ping Lai - JCMT/ALMA
- 10:00 - Nagayoshi Ohashi - JCMT/Subaru
- 10:15 - Kazufumi TORII - FUGIN: FOREST Ultra-wide Galactic Plane Survey In Nobeyama

10:30 - 11:00 Tea break & Support Scientist Chat & Posters!

Session 7: 11:00am - 12:30pm New Large Program Ideas: Breakout session

- Session: Galactic
 - Session leads: Jenny Hatchell & Greg Herczeg
 - Location: *Guoha Hall located on the 27th floor*
- Session: Extragalactic
 - Session leads: Chris Wilson & Yu Gao
 - Location: *Suiyuan Hall located on the 26th floor*
- Session: Cosmology
 - Session leads: Xianzhong Zheng & Wei-Hao Wang
 - Location: *Meiyuan Hall located on the 26th floor*

12:30pm-2:00pm Lunch - Dahua Cafe located on the 28th floor at the Golden Eagle International Hotel.

Session 8: 2:00pm - 3:00pm New Large Program Ideas: Feedback

Session Chair: Harriet Parsons

- Feedback from session: Galactic - Jenny Hatchell & Greg Herczeg
- Feedback from session: Extragalactic - Tie Liu & Chris Wilson
- Feedback from session: Cosmology - Xianzhong Zheng & Wei-Hao Wang

3:00pm - 3:30pm Tea break & Support Scientist Chat & Posters!

Session 9: 3:30pm - 5:00pm - concluding remarks & continuation of discussions

- Paul Ho - Meeting summary and concluding remarks (25+5min)

End of meeting

JCMT Users workshop

February 15th 2017

Location: Guohua Hall located on the 27th floor at the Golden Eagle International Hotel

The following sessions are provided for any JCMT astronomer interested. We ask that you invest in time prior to the meeting to ensure you have the latest version of our software starlink and the JCMT OT installed on your computer, and that you have (where asked) gone through our basic data reduction software.

Session 1: 9:00am - 9:45am JCMT Observing Tool tips and tricks

Session Lead: Graham Bell

This session will focus on optimising the JCMT OT for MSB creation. If you have been awarded time or asked to create MSBs for a project this session is for you! Come learn from our expert how to make your MSBs clear, concise and efficient, to the benefit of your program.

Session 2: 9:45am - 10:15am Heterodyne - Reduction and Calibration

Session Lead: Sarah Graves

This session will focus on Receiver A3m, in particular the calibration of data taken from this instrument. Users will be expected to have completed the online Heterodyne tutorials 1 & 2:

<http://www.eaobservatory.org/jcmt/science/reductionanalysis-tutorials/>

Session 3: 10:15am - 11:30am SCUBA-2 what's in the dust?

Session Lead: Harriet Parsons

Recently there has been a focus on understanding the contaminating effect of CO (3-2) emission in SCUBA-2 850 micron maps. This session will show you how to take existing HARP data and determine the contamination it has on SCUBA-2 850 micron data. Users will be expected to have completed the online SCUBA-2 tutorials 1 & 2, and ideally also tutorials 3 & 4:

<http://www.eaobservatory.org/jcmt/science/reductionanalysis-tutorials/>

Session 4: 11:30am - 12:15pm Polarimetry DR at the JCMT

Session Lead: Mark Rawlings

In the past year POL-2 was released under PI time to the JCMT community. Come and learn how to reduce POL-2 data in this hands-on tutorial. Users will be expected to have completed the online SCUBA-2 tutorials 1 & 2: <http://www.eaobservatory.org/jcmt/science/reductionanalysis-tutorials/>

Tea and coffee will be provided during the workshop (10:30 - 11:00)

End of workshop