

Payne-Scott Workshop on Hyper Compact HII regions

Wednesday 8 September 2010

Main Lecture Theatre, CASS Headquarters, Marsfield, Sydney

There are two aims of the workshop:

1. To address the search criteria to find more hyper-compact HII regions with the goal of submitting an observing proposal to ATCA/eVLA and perhaps earlyALMA.
2. To discuss the 3-mm continuum excess seen in SED studies

Final Program:

1. Open Meeting

9:00am Kate Brooks

2. Review Talks

9:10am Guido Garay: HII regions - the classical view

9:50am Melvin Hoare: Massive Young Stellar Objects and their transition to UCHIIs

10:30am Morning Break

3. Characterising hyper-compact HII regions and pre-UCHII regions

11:00am Jill Rathborne: Green fuzzy emission

11:20am Shari Breen: Maser emission

11:40am Tracey Hill: NH₃ emission

12:00 Cormac Purcell: Chemical conditions

12:20pm Anita Titmarsh: First-look with MALT90

12:30pm Lunch Break

4. Searching for / Identifying hyper-compact HII regions

1:30pm Andres Guzman: Distinguishing jets from hyper-compact HII regions

2:00pm Steve Longmore: Extended free-free emission not to be overlooked

2:30pm Tara Murphy: AT20G Compact HII region Survey

2:50pm Martin Cohen: Mid-IR counterparts of ultra/hyper compact HII regions

3:10pm Ron Ekers: Modeling fitting AT20G ultra/hyper compact HII region visibilities and the nature of the 3mm excess

3:20pm Afternoon Break

4. Review Talk

3:45 pm Anna Scaife (via video link): 3-mm Excess Emission and Spinning Dust

5. Discussion + Meeting Close

4:15pm Kate Brooks

5:30pm Departure from CASS Entrance Foyer to Darling Harbour

7pm Dinner: Zaffran Indian Restaurant, Darling Harbour

www.zaaffran.com

List of Participants *(as of 31 August 2010)*

Kate Brooks*	CSIRO Astronomy and Space Science
Andres Guzman*	CSIRO/University of Chile
Guido Garay*	University of Chile
Steve Longmore*	Harvard-Smithsonian Center for Astrophysics
Luke Hindson*	University of Hertfordshire
Tara Murphy**	University of Sydney
Martin Cohen*	University of Berkeley
Ron Ekers*	CSIRO Astronomy and Space Science
Jill Rathborne*	CSIRO Astronomy and Space Science
Shari Breen*	CSIRO Astronomy and Space Science
Melvin Hoare*	University of Leeds
Tracey Hill*	CEA/Saclay
Anita Titmarsh	CSIRO/University of Tasmania
Anne Green	University of Sydney
Chris Phillips	CSIRO Astronomy and Space Science
Cormac Purcell*	University of Leeds
Graeme Wong	University of Western Sydney
James Urquhart*	CSIRO Astronomy and Space Science
Maria Cunningham*	University of New South Wales
Paul Jones*	University of New South Wales
Vicki Lowe*	University of New South Wales
Nadia Lo*	University of Chile
Nick Tothill*	University of Exeter
Jagadheep Pandian	Institute for Astronomy, University of Hawaii
Anna Scaife	Dublin Institute for Advanced Studies (Video Conference)
Mark Wardle	Macquarie University
Yanett Contreras*	CSIRO/University of Chile
Greg Madsen	University of Sydney
Christophe Pinte*	LAOG Grenoble
Ian Smith	Macquarie University
Patricio Sanhueza*	Boston University

*Attending the dinner as of 7 September 2010