



<http://kicp-workshops.uchicago.edu/carma2013/>

SYMPOSIUM PROGRAM

The Kavli Institute for Cosmological Physics (KICP) at the University of Chicago will host the 2013 CARMA Science Symposium on July 8-9, 2013. The two-day meeting will feature presentations relevant to the wide range of interdisciplinary science pursued with CARMA. In particular, there will be presentations from the community on potential future directions for CARMA-related research. These presentations include potential collaboration with new observatories, and science for which CARMA is uniquely suited.

Contributions from outside CARMA member institutions are welcome. Graduate students and postdocs are encouraged to submit a presentation.

Scientific Organizing Committee

Manuel Fernandez Lopez
University of Illinois at Urbana-Champaign

David Fisher
University of Maryland

Chat Hull
University of California, Berkeley

Luca Ricci
California Institute of Technology

Andreas Schruba
California Institute of Technology

Local Organizing Committee

Aimee Giles
Kavli Institute for Cosmological Physics

Megan Gralla
Johns Hopkins University

Christopher Greer
University of Arizona

Adam Mantz
University of Chicago

Helen Pates
Kavli Institute for Cosmological Physics

Valerie Smith
University of Chicago

SYMPOSIUM PROGRAM

July 8-9, 2013 @ GCIS Room W301 at the University of Chicago

Monday - July 8, 2013

- 9:00 AM - 9:10 AM **John E Carlstrom**, University of Chicago
Welcoming Remarks
- 9:10 AM - 9:25 AM **Nikolaus Volgenau**, CARMA
CARMA Technical Developments 2011-Present
- STAR FORMATION**
Chair: Lucca Ricci
- 9:25 AM - 9:55 AM **Laura Perez**, NRAO
Invited Talk: Understanding Star and Planet Formation with CARMA
- 9:55 AM - 10:10 AM **Richard M Crutcher**, University of Illinois at Urbana-Champaign
CARMA Studies of Magnetic Fields in Molecular Clouds
- 10:10 AM - 10:25 AM **Chat Hull**, University of California, Berkeley
Are magnetic fields and outflows aligned in protostellar cores?
- 10:25 AM - 10:40 AM **Manuel Fernandez Lopez**, University of Illinois at Urbana-Champaign
CARMA mm view over three selected star-forming regions: intrigues of outflow activity
- 10:40 AM - 11:15 AM *COFFEE BREAK*
- 11:15 AM - 11:30 AM **Leslie Looney**, University of Illinois at Urbana-Champaign
Disks around the Youngest Protostars
- 11:30 AM - 11:45 AM **Patrick D Sheehan**, University of Arizona
Measuring Disk Masses of Class I Protostars
- BLACK HOLES AND VLBI**
Chair: Chris Greer
- 12:15 PM - 12:30 PM **Dick Plambeck**, University of California, Berkeley
Phasing CARMA for the EHT
- 12:30 PM - 2:00 PM *LUNCH*
- 2:00 PM - 2:15 PM **Farhad Yusef-Zadeh**, Northwestern University
*Star Formation near and Past Activity of Sgr A**
- 2:15 PM - 2:30 PM **Geoffrey C Bower**, University of California, Berkeley
*From the Event Horizon to the Bondi Radius: CARMA Polarimetry of Sagittarius A**
- 2:30 PM - 2:45 PM **Leo Blitz**, University of California, Berkeley
Finding Black Holes in Galactic Centers with CARMA
- SZ OBSERVATIONS OF GALAXY CLUSTERS**
Chair: Bill Holzapfel
- 2:45 PM - 3:05 PM **Bradford Benson**, University of Chicago
Invited Talk: Sunyaev-Zel'dovich Surveys and Cluster Cosmology
- 3:05 PM - 3:20 PM **Christopher Greer**, University of Arizona
Current and Near-term CARMA SZ Results
- 3:20 PM - 3:30 PM *POSTER SESSION RAPID FIRE*
- 3:30 PM - 4:00 PM *COFFEE BREAK*
- 4:00 PM - 4:15 PM **Ashley E Lindley**, University of Alabama in Huntsville
Measurement of the Gas Mass Fraction via Sunyaev-Zel'dovich Effect Observations of a Complete Sample of Galaxy Clusters

4:15 PM - 4:30 PM	Zubair M Abdulla , University of Chicago <i>CARMA Measurements of the Sunyaev-Zel'dovich Effect in MS 0735+7421</i>
4:30 PM - 4:45 PM	Adam Mantz , University of Chicago <i>Physics and Cosmology of Galaxy Clusters from cm to X-ray Wavelengths</i>
4:45 PM - 5:05 PM	Mark Brodwin , University of Missouri - Kansas City <i>The Massive Distant Clusters of WISE Survey (MaDCoWS)</i>
5:05 PM - 5:25 PM	Dan Marrone , University of Arizona <i>CARMA and eROSITA</i>
6:00 PM	<i>CARMA COOKOUT</i>

Tuesday - July 9, 2013**MOLECULAR CLOUDS***Chair: Chat Hull*

- 9:00 AM - 9:30 AM **Lee Mundy**, University of Maryland
Invited Talk: Large-Scale Molecular Mapping
- 9:30 AM - 9:45 AM **Shaye Storm**, University of Maryland
Dendrogram analysis of the first CARMA Large Area Star formation Survey regions
- 9:45 AM - 10:00 AM **Katherine Lee**, University of Illinois at Urbana-Champaign
Early Stages of Protocluster Formation: Substructure and Kinematics of Starless Cores in Orion
- 10:00 AM - 10:15 AM **Anthony Remijan**, NRAO
Investigating Molecular Complexity with CARMA
- 10:15 AM - 10:45 AM *COFFEE BREAK*
- GALAXIES**
Chair: Andreas Schruba
- 10:45 AM - 11:15 AM **Adam Leroy**, NRAO
Invited Talk: Millimeter Observations of Nearby Galaxies
- 11:15 AM - 11:30 AM **Tony Wong**, University of Illinois at Urbana-Champaign
The Molecular Disks of Galaxies as Seen by CARMA
- 11:30 AM - 11:45 AM **Rui Xue**, University of Illinois at Urbana-Champaign
CARMA SURVEY TOWARD INFRARED-BRIGHT NEARBY GALAXIES: Atomic-to-Molecular Transition
- 11:45 AM - 12:00 PM **Swarnima Manohar**, California Institute of Technology
Ultra Luminous Infrared Galaxies: Mergers in the Local Universe
- 12:00 PM - 1:15 PM *LUNCH*
- 1:15 PM - 1:30 PM **Katey Alatalo**, Caltech/IPAC
Determining the Importance of Shocks on Galaxy Evolution in Compact Groups: a Herschel and CARMA View
- 1:30 PM - 1:45 PM **Garrett "Karto" Keating**, University of California, Berkeley
The CO Cosmological Origins and Abundances (COCOA) Project: The Search for Molecular Gas at $z=3$
- TIME DOMAIN ASTRONOMY**
Chair: Manuel Fernandez Lopez
- 1:45 PM - 2:00 PM **Bevin A Zauderer**, Harvard University
A Millimeter View of the Transient Universe: Time Domain Astronomy with CARMA
- 2:00 PM - 2:15 PM **Assaf Horesh**, California Institute of Technology
Exploring the dynamic radio sky
- 2:15 PM - 2:30 PM **Demerese Salter**, University of Maryland
The millimeter synchrotron flare emission from the DQ Tau T Tauri binary system
- 2:30 PM - 2:45 PM **Daniel Perley**, California Institute of Technology
Millimeter Observations of GRB Afterglows
- 2:45 PM - 3:00 PM **Peter Teuben**, University of Maryland
MIRIAD in the ALMA era
- 3:00 PM - 5:00 PM *HAPPY HOUR*