

Commission J sessions for URSI 2006 Boulder Meeting

Wednesday Jan 4

AM - Submillimeter and THz Technology for Radio Astronomy
S-J/B1 Joint with Comm B; Lead Comm J

Chair: Simon Radford, California Institute of Technology <sradford@caltech.edu>

Betz, Albert, Univ of Colorado
Quantum Cascade Lasers
Betz20674

Wilson, Grant, Univ of Mass.
Frequency Selective Bolometers
Wilson29697

Yngvesson, Sigfrid, Univ. of Mass
Recent Developments of Hot Electron Bolometer Technology Relevant for the Astronomy
Receivers
yngvesson32581

Dobbs, M.A, McGill University,
H.M. Cho, J. Clarke, W. Holzapfel, T.M. Lanting, A.T. Lee, M. Lueker, P.L. Richards, H.G.
Spieler
Developments in Frequency Domain Multiplexing for Large Arrays of Transition Edge Sensor
Bolometers
dobbs3647

Jonathan Kawamura, JPL,
Raymond Blundell, Daniel Marrone, Scott Paine, Edward Tong, T. K. Sridharan, John Pearson,
Jeff Stern, Harold Yorke, Steven Lord, Imran Mehdi, John Ward, Denis Loudkov
A 1.5 THz Superconducting Heterodyne Receiver for Ground Based Astronomical Observations
kawamura24769 (note duplicate submitted, so reject kawamura24631)

Peter Day, JPL,
H.G. LeDuc, B.A. Mazin, A. Vayonakis, J. Gao, S. Kumar, J. Zmuidzinas
Antenna-Coupled Microwave Kinetic Inductance Detectors
day32640

Anastasios Vayonakis, Caltech,
Peter Day, Alexey Goldin, Rick LeDuc, Ben Mazin, Shwetank Kumar, Jiansong Gao, Chao-Lin
Kuo, Jeff Stern, Jonas Zmuidzinas
Antenna-Coupled Microwave Kinetic Inductance Detectors
vayonakis20991

James Chervenak, NASA/GSFC,
E.J. Wollack, T. Marriage, M. Niemack, S. Staggs, R. Dorise
Large Format Imaging Arrays for the Atacama Cosmology Telescope
chervenak16885

Martin Lueker, UC Berkeley,
The APEX-SZ Collaboration, The South Pole Telescope Collaboration

Frequency Domain Multiplexed Receivers for Studying the Sunyaev-Zeldovich Effect
lueker28282

David Chuss, NASA/GSFC,
Edward J. Wollack, S. Harvey Moseley
Electromagnetic Properties of Filled Pixelated Arrays
chuss30055

Thomas Stevenson, NASA/GSFC,
Nga Cao, David Chuss, Dale Fixsen, Wen-Ting Hsieh, Alan Kogut, Michele Limon, S. Harvey
Moseley, Nicholas Phillips, Gideon Schneider, Douglas Travers, Edward Wollack
Polarimeter Arrays for Cosmic Microwave Background Measurements
stevenson4152

PM - Focal Plane Array Technology
S-J/B2 Joint with Comm B; Lead Comm J
Chair: Chris Walker <cwalker@as.arizona.edu>
& from Comm B: Y. Rahmat-Samii <rahmat@ee.ucla.edu>

Gordon Stacey, Cornell University,
S. Hailey-Dunsheath, T. Nikola, T. Oberst, S.C. Parshley
Direct Detection Submillimeter Spectroscopy at Cornell University
Stacey11846

Jason Glenn, University of Colorado,
P.A.R. Ade, J. Aquirre, J. Battle, J.J. Bock, C.M. Bradford, M. Dragovan, L. Duband, L. Earle, V.
Hristov, P. Maloney, H. Matsuhara, B. Naylor, H. Nguyen, C. Wood, J. Zmuidzinas
Z-Spec: A Broadband Millimeter Wave Spectrometer
Glenn15629

William Duncan, NSIT
Kent Irwin, Gene Hilton, Carl Rentsiema, Leila Vale, Yizi Xu, Peter Ade, Adam Woodcraft, Dan
Bintley, Rashmi Sudiwalla, Cynthia Hunt, Mark Halpern, Wayne Holland, Michael MacIntosh,
Anthony Walton, William Parkes, Camelia Dunare
SCUBA-2 Focal Plane Arrays
Duncan11371

Simon Dicker, Univ. of Pennsylvania,
Mark Devlin, Ben Werner, Phil Korngut, Brian Mason, Dominic Benford, Kent Irwin, Carole
Tucker, Peter Ade
An Update on the Penn Array Receiver
Dicker14129

Christopher Groppi, Steward Observatory,
Christopher Walker, Craig Kulesa, Dathon Golish, Abby Hedden, Patrick Puetz, Paul Gensheimer,
Christian Droucet d Aubigny, Shane Bussman, Jacob Kooi, Arthur Lichtenberger, Sander Weinreb,
Niklas Wadefalk, Joseph Barden, Glenn Jones, Gopal Narayanan, Ton Kuiper
Desert Star and Supercam Heterodyne Array Receivers for the 870 Micro Atmospheric Window on
the Heinrich Hertz Telescope
Groppi7179

Richard Hills, Cavendish Lab
G.S. Bell, Buckle, J.V., W.R.F. Dent, R.O. Redman, J.S. Richer, H. Smith
Commissioning of HARP B – A Heterodyne Array Receiver for JCMT
Hills32221

William A. Imbriale, JPL
The 1.4 Meter Telescope Design for the Q/U Imaging Experiment
imbriale32640

Gopal Narayanan, Univ of Mass.
N.R. Erickson, R.M. Grosslein, P. Deshpande, V. Fath
SIS Focal Plane Array Receiver Featuring Sideband Separation Mixers
Narayanan18322

Henry Chen, UC Berkeley
P.Y. Droz, A. Parsons, D. Backer, C. Chang, D. Chapman, C. de Jesus, D. MacMahon, A. Siemion,
D. Werthimer, M. Wright
FPGA-Based Spectrometers, Beam Formers, and Correlators
Chen2405

Keyvan Bahadori, UCLA
Yahya Rahmat-Samii
Spherical Reflector Antennas with Compensating Array Feed for Extremely Large Number of
Scanned Beams
Bahadori14280

Thursday Jan 5:

AM - URSI Plenary "Spectrum Management"
Organizers: Karen St.Germain (Comm. F), karen.stgermain@noaa.gov
Andrew Clegg (Comm. J), aclegg@nsf.gov

gasiewski26776 - I don't have abstract..

Andrew Clegg, NSF
DC to Daylight: Spectrum Management and the New Radio Astronomy
clegg23935

PM - Radio Astronomy Teaching Laboratories and Instruments
Organizer: Robert Mutel <robert-mutel@uiowa.edu>
Co-Chairs, J. Carlstrom, University of Chicago,
R. Mutel, University of Iowa

Carl Heiles, UC Berkeley
Astronomy 121, Berkeley's UG Radio Astronomy Lab: Do It Yourself, No (Almost!) Black Boxes
heiles3719

Jim Cordes, Cornell University

Massive Radio Astronomy Surveys At Arecibo Using ALFA: Data Mining And Management
cordes8216

Robert Mutel, University of Iowa
L. Spitler, K. Ivarsen
The Iowa E-SRT Project
mutel5931

Richard Bradley, NRAO
Blending Science and Technology in the Development of Radio Astronomy Instrumentation: The
NRAO-University of Virginia Education Initiative
bradley2993

Chris Walker, University of Arizona
Interdisciplinary Research & Outreach Program at Soral
walker5070

Preethi Pratap, MIT Haystack Observatory
A.E.E.R, Rogers, J.E. Salah
Radio Telescopes In The Undergraduate Classroom
pratap28414

Greg Taylor, University of New Mexico
P.A. Henning, N. Kassim, W. Junor, T. Gaussiran
Engaging Universities With The Long Wavelength Array
taylor13728

John Carlstrom, University of Chicago
Cosmic Microwave Background Student Laboratory
carlstrom24871

Friday Jan 6:

AM - New Interferometric Calibration Techniques
S-J2 Chair: Mel Wright <wright@creek2.berkeley.edu>

Todd Hunter, Harvard-Smithsonian CfA
J.-H Zhao, S.-Y Liu, Y.-N Su
Dual Frequency 230/690 GHz Interferometry and Phase Transfer at the Submillimeter Array
hunter22406

D.P. Marrone and R. Rao, Harvard-Smithsonian CfA,
Interferometric Polarimetry: Calibration and Results from the SMA
marrone12470

J.L. Gibson and W.J. Welch, UC Berkeley
Accurate Antenna Gain Calibration at cm and mm wavelengths
gibson13046

S.A. Corder and M.C.H. Wright, Caltech
Mosaicing with Radio Interferometers: Calibrating the Primary Beam

corder3207

Mark Holdaway, NRAO,
Update on Fast Switching Phase Calibration for ALMA
holdaway21780

Colin Lonsdale, Shep Doeleman, Roger Cappallo MIT/Haystack,
Sean Ting_ , Miguel Morales
Calibrating the MWA Low Frequency Demonstrator
lonsdale31211

Miguel Morales, Harvard-Smithsonian CfA
Unique Design Features the MWA Correlator and Digital Backend Systems
morales19466

Gerry Harp, SETI Institute
D.H.E. McMahon, M.C.H. Wright
Steps Toward A Streaming Radio Telescope: An IBOB Correlator
harp2935

John Minkoff, ITT
Developments in Methods for Very High Resolution Elimination of Interference at Arrays with
Applications for Radio Astronomy
minkoff25980

Mike Montgomery, University of Texas
G. Bust, T. Gaussiran
Ionospheric Calibration Issues Facing Low Frequency Arrays
montgomery28030

PM - Challenges and New Algorithms for Interferometric Imaging
S-J3 Chair: Steve Myers <smyers@aoc.nrao.edu>

Sanjay Bhatnagar (NRAO)
Full-beam imaging at high dynamic range
bhatnagar5126

Urvashi Rao-Venkata, NRAO
S.T. Myers, T.J. Cornwell
Wide-bandwidth Imaging: Challenges and Prospects for EVLA and Beyond
raovenkata2775

Joe Lazio, Naval Research Laboratory
N.E. Kassim, A.S. Cohen, W.D. Cotton, W.M. Lane, R.A. Perley, J.J. Condon
Low-Frequency Wide-Field Imaging from the VLA to the LWA
lazio2015

Crystal Brogan, University of Hawaii
Mark Holdaway, Steve Myers
Challenges and Future Directions for Submillimeter Imaging

brogan32697

Tim Pearson, Caltech
Interferometric Imaging of the Microwave Background Radiation
pearson13914

Ben Wandelt, Univ of Illinois Urbana
Edmund Sutton
Bayesian Interferometric Image Reconstruction
wandelt20962

Mel Wright, UC Berkeley
Real Time Imaging
wright14987

Aaron Parsons, UC Berkeley
Don Backer, Dan Werthimer , Mel Wright
A New Approach to Radio Astronomy Signal Processing: Packet Switched, FPGA Based,
Upgradeable, Modular Hardware and Reusable, Platform Independent Signal Processing Libraries
parsons19227

Mark Butala, University of Illinois, Urbana
R.A. Frazin, F. Kamalabadi, A. Kemball
Time-dependent Interferometric Imaging of Non-stationary Objects
butala29033

Robert Mutel, I Christopher, University of Iowa
Imaging Auroral Kilometric Radiation Burst Using
A 4-Station Space-Based Interferometer
mutel6227

Nagini Paravastu, Naval Research Laboratory
T.J.W. Lazio, E. Polisensky, N.E. Kassim, K. Weiler, P.S. Ray, B. Hicks, P. Crane, K. Stewart,
A.S. Cohen
The Long Wavelength Array
paravastu3323

Saturday Jan 7:

No Commission J sessions on Saturday