

23rd ANNUAL NEW MEXICO SYMPOSIUM
2007 October 19
Poster Program

Instruments

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| 1 | Michelle Creech-Eakman, C. Jurgenson & the MROI collaboration | <i>Update on the science and status of the MRO interferometer</i> |
| 2 | Masaya Kuniyoski, G. Taylor (UNM), & S. Bhatnagar (NRAO) | <i>A simulator for the Long Wavelength Array</i> |
| 3 | Sergio Restaino (NRL) | <i>Carbon fiber reinforced polymer (CFRP) ultra-light telescopes program</i> |
| 4 | Jon Romney, W. Briskin, S. Durand, M. Revnell, C. Walker (NRAO) | <i>The VLBA sensitivity upgrade project</i> |
| 5 | Frank Schinzel (UNM), A. Cohen (NRL) & the LWA collaboration | <i>Site selection and testing for the LWA</i> |

Solar System

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| 6 | Nancy Chanover, R. Carlson (NMSU), G. Bjoraker & D. Glenar (BSFC) | <i>A north-south comparison of Saturn's infrared spectrum</i> |
| 7 | Charles Miller, N. Chanover, J. Holtzman (NMSU) & A. Verbiscer (U. Virginia) | <i>Observations of time-varying magnitude events of Pheobe, Ariel and Titania</i> |
| 8 | James Norwood & N. Chanover (NMSU) | <i>Latitudinal variations in Uranus' near-infrared methane absorption bands</i> |

Stellar objects

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| 9 | Ryan Campbell, T. Harrison (NMSU) | <i>Phase-resolved cyclotron spectroscopy of polars</i> |
| 10 | Robert Hueckstaedt (LANL), B. Freytag, F. Herwig & F. Timmes | <i>Multi-dimensional simulations of helium shell flash convection</i> |
| 11 | Ruth Juarez (NMT) | <i>Search for variable star candidates</i> |
| 12 | Andrea Schmidt (LANL/UNM), J. Fasel, J. Singleton (LANL), H. Ardvan (Cambridge) | <i>On the superluminal model of pulsar radiation</i> |
| 13 | Jim Sheckard, T. Hankins, J. Eilek (NMT) | <i>Exploring the properties of Crab giant pulses at L-band</i> |

ISM & star formation

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| 14 | Kurt Anderson (NMSU) & the APO/Washington collaboration | <i>A search for galactic planetary nebulae in the SDSS footprint</i> |
| 15 | Esteban Araya (NMT/NRAO), N. Conklin (UC Berkeley), M. Goss (NRAO) & P. Hofner (NMT) | <i>Possible evidence of anomalous hyperfine ratios of the formaldehyde 6cm line</i> |
| 16 | Ylva Philstrom (UNM), V. Fish, L. Sjouwerman, L. Zschaechner, P. Lockett & M. Eiltzur | <i>Supernova remnants and excited-state OH masers</i> |
| 17 | Crystal Anderson, P. Hofner, E. Araya & E. Jordan (NMT) | <i>Massive star formation research at New Mexico Tech</i> |

- 18 Claire Chandler, C. Brogan (NRAO), K. Devine, E. Churchwell (U. Wisconsin), R. Indebetouw (U. Virginia) & Y. Shirley (U. Arizona) *Evidence of protostars in infrared dark clouds*
- 19 George Moellenbrock, M. Claussen & M. Goss (NRAO) *A precise distance to IRAS 00420+50 via H₂O maser parallax with the VLBA*

Galaxies

- 20 Dmitry Bizayev (APO/NMSU) *Dark haloes around edge-on galaxies: SDSS data*
- 21 Glenn Kacprzak, C. Churchill, D. Ceverino-Rodriguez (NMSU), C. Steidel (CIT), & M. Murphy (Swinburne) *Unravelling galaxy formation from extended halo gas and galaxy disk kinematics*
- 22 Sharon Meidt, R. Rand (UNM), & M. Merrifield (U. Nottingham) *Radial dependence in the pattern speed of M51*
- 23 Richard Rand (UNM), R. Benjamin (U. Madison-Wisconsin) *Atomic gas in the massive edge-on spiral NGC 5746*
- 24 Alison Widhalm (NMSU) *The evolution of the gaseous halo of the Milky Way galaxy: comparing simulations with observations*

AGN & extragalactic

- 25 Jean Eilek (NMT), F. Owen (NRAO), W. Forman, C. Jones (CfA), E. Churazov (MPE), G. Morrison (CFHT) & A. Datta (NMT) *The complex cluster around IC1262*
- 26 Dean Hines (SSI) *Spitzer observations of Cygnus A and Pictor A*
- 27 Kathleen Shurkin, G. Gentile, G. Taylor (UNM), R. Dunn (U. Southampton), S. Allen (Stanford) *AGN-induced cavities in NGC 1399 and NHC 4649*
- 28 Steven Tremblay & G. Taylor (UNM) *Multi-frequency study of compact symmetric object candidates*
- 29 Joan Wrobel (NRAO), Y. Terashima (Ehime U.), L. Ho (OCIW) *Outflow-dominated emission from the quiescent massive black holes in NGC 4621 and NGC 4697*
- 30 Joan Wrobel, J. Ulvestad (NRAO), J. Greene (Princeton), & L. Ho (OCIW) *Radio emission from the intermediate-mass black hole GH 10*

High-*z* & cosmology

- 31 Eric Bakker (NMT/MRO), M. Elvis (CfA), M. Creech-Eakman (NMT/MRO), P. Festler (MRO) *Cosmology with an optical interferometer*
- 32 Jillian Bornak (NMSU) *Multiwavelength observations of the high-reddened *Z*-source GX17+2*
- 33 Jessica Evans, C. Churchill, A. Widhalm (NMSU), & M. Murphy (Cambridge) *Statistical properties of MgII absorbers at $z < 1.5$*
- 34 John Middleditch (LANL) *The SN 1987A “mystery spot”, GRBs, & Ia cosmology*
- 35 Ran Wang (NRAO) *Millimeter and radio study of $z \sim 6$ quasars*