

23rd ANNUAL NEW MEXICO SYMPOSIUM
2007 October 19

Oral Program

9.00-9.05 Bob Dickman (NRAO) Welcome

Session 1 Chair: Jean Eilek

9.05-9.25 Eileen Ryan & W. Ryan (NMT/MRO) *Physical characterization and follow-up studies of near-earth objects using MRO's 2.4-m telescope*

9.25-9.45 Steven Myers (NRAO) *The Radio Synoptic Survey Telescope: a square kilometer array for hydrogen and gravity studies*

9.45-10.05 John Matthews & the Pierre Auger Collaboration (UNM) *Evidence for correlation of the highest energy cosmic rays and extragalactic objects (AGN)*

10.05-10.25 Lee J Rickard (UNM) *An update on the Long Wavelength Array project*

10.25-11.00 Coffee & Posters [Upstairs Common Room]

Session 2 Chair: Claire Chandler

11.00-11.20 Amy Mioduszewski (NRAO) *Mapping nearby star forming regions: distances to young stars with the VLBA*

11.20-11.40 Dean Hines (SSI), F. Markwick-Kemper, S. Gallagher & J. Bouwman *Dust in the wind: crystalline silicates, corundum, and periclaste in PG 2112+059*

11.40-12.00 Gianfranco Gentile (UNM) *Tidal dwarf galaxies as a test of fundamental physics*

12.00-12.20 Chris Churchill (NMSU) *Toward solving the major problems in galaxy evolution simulations via quantitative comparison of observed and simulated gaseous haloes*

12.20-2.00 Lunch & Posters

Session 3 Chair: Frazer Owen

2.00-2.20	Alexey Voevodkin, K. Borozdin, K. Heitmann (LANL) & C. Miler (NOAO)	X-ray properties of two optically selected fossil groups
2.20-2.40	Zarija Lukic (UIUC), D. Reed, K. Heitmann, S. Habib (LANL) & P. Ricker (UIUC)	Constraining cosmological parameters with galaxy cluster counts
2.40-3.00	Wei-Hao Wang (NRAO), L. Cowie (U. Hawaii), J. van Saders (Rutgers), A. Barger (U. Wisconsin-Madison), J. Williams (U. Hawaii)	GOODS 850-5 — a $z > 4$ galaxy discovered in the sub-millimeter?
3.00-3.20	Karl Menten, C. Henkel (MPIfR), C. Carilli (NRAO) & M. Reid (CfA)	Intermediate-redshift molecular line absorption against the B0218+357 and PKS 1830-211 gravitational lens systems
3.20-4.00	Coffee & Posters	[Upstairs Common Room]

Session 4 Chair: Lisa Young

4.00-4.20	Mark McKinnon (NRAO)	Evidence for stochastic, generalized Faraday rotation in the radio emission from PSR B0329+54
4.20-4.40	John Singleton, A. Schmidt, J. Fasel (LANL), H. Ardavan (Cambridge), & A. Ardavan (Oxford)	Lawbreakers? electromagnetic radiation from superluminal sources: laboratory demonstrations and simulations of pulsar observational data
4.40-5.00	Ashley Ruiter(NMSU), K. Belczynski (NMSU/LANL), M. Benacquista (CGWA@UTB), K. Holley-Bocklemann (Vanderbilt)	Contribution of halo white dwarf binaries to the LISA gravitational wave signal
5.00-5.20	Tom Vestrand, A. Panaiteescu, P. Wozniak, R. White & J. Wren (LANL)	Optical observations of GRBs during the critical first few minutes
5.30	Cocktails & Dinner	[Macey Center]
8.00	Karl Menten	JANSKY LECTURE: Tuning into the Molecular Universe