

PROGRAM UPDATE

High Energy Astrophysics Division Meeting

8-11 September 2004

New Orleans, Louisiana

WEDNESDAY PROGRAM CHANGES

- 2.13 = 26.21, SWITCHED POSTERS, 26.21 WILL BE PRESENTED IN 2.13 SLOT
Is the Hot Missing Matter still missing?
B. McKernan, C. S. Reynolds (U. Maryland College Park), T. Yaqoob (JHU)
- 3.08 MOVED TO 25.31: Deep Optical ChaMPlane Survey of the Galactic Center
P. Zhao, J. Grindlay, J. Hong, S. Laycock, X. Koenig, E. Schlegel, M. van den Berg (CfA), H. Cohn, P. Lugger, A. Rogel (Indiana U.)
- 4.08 WITHDRAWN: Structure, Spectra, and Flaring in the M87 Jet
D. E. Harris (SAO), C. C. Cheung (SAO and Brandeis), J. A. Biretta (STSci), W. Junor (LANL), E. S. Perlman (U. Maryland), W. B. Sparks (STSci), A. S. Wilson (U. Maryland)
- 11.04 WITHDRAWN: High-Energy Emission From Millisecond Pulsars
A.K. Harding (NASA/GSFC), V.V. Usov (Weizmann Inst.), A.G. Muslimov (Mantech Int. Corp.)
- 8.02 MOVED TO 11.04 VACANCY:
Wind-Magnetosphere Interaction in Binary Pulsar System J0737-3039
A. Spitkovsky (KIPAC, Stanford University), J. Arons (UC Berkeley)

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THURSDAY PROGRAM CHANGES

- 16.28 MOVED TO 27.08: Student Analysis of High Energy Astronomy Data using Hera
J. C. Lochner (USRA - NASA/GSFC), W. D. Pence (NASA/GSFC)
- 17.10 MOVED TO 15.17: Multiwavelength Observations of Ultraluminous X-Ray Sources
P. Kaaret (University of Iowa)

FRIDAY PROGRAM CHANGES

- 24.07 WITHDRAWN: Evidence of a Cosmic-Ray Modified Shock in SN 1006
G. E. Allen, J. C. Houck (MIT Center for Space Research), S. J. Sturmer (USRA-NASA Goddard Space Flight Center)
- 25.31 RESCHEDULED FROM 3.08: Deep Optical ChaMPlane Survey of the Galactic Center
P. Zhao, J. Grindlay, J. Hong, S. Laycock, X. Koenig, E. Schlegel, M. van den Berg (CfA), H. Cohn, P. Lugger, A. Rogel (Indiana U.)
- 26.17 MOVED TO 24.30: Gamma-ray Observations of Starburst Galaxy IC342
T. Nagai (University of Utah), V. Vassiliev (UCLA), VERITAS Collaboration
- 26.29 WITHDRAWN: X-ray QPOs in AGN
K. M. Leighly, J. Choi (U. Oklahoma)
- 26.21 = 2.13, SWITCHED POSTERS, 2.13 WILL BE PRESENTED IN 26.21 SLOT
What goes down must come up (in part): What are we learning from Chandra about warm outflows in AGN?
B. McKernan, C. S. Reynolds (U. Maryland College Park), T. Yaqoob (JHU)
- 27.08 RESCHEDULED FROM 16.28: Student Analysis of High Energy Astronomy Data using Hera
J. C. Lochner (USRA - NASA/GSFC), W. D. Pence (NASA/GSFC)
- 29.02 ADDITIONAL AUTHOR:
New diagnostics of QPOs in X-ray binary systems: rms-flux relations and coupling
P. Uttley (NASA-GSFC), T. Maccarone (U. Amsterdam)

SATURDAY PROGRAM CHANGES

- 34.04 SPEAKER CHANGE: Upward Showering Muons in Super-Kamiokande
A.T. Habig (U. Minnesota, Duluth) S. Desai (Dept. of Physics, Boston U.), Super-Kamiokande Collaboration
- 40.06 MOVED TO 24.09: Discovery of an X-ray pulsar with 36 sec period in the supernova remnant W63
J. Rho, D. -S. Moon (Caltech), E. Gotthelf (Columbia University), T. Pannuti (Caltech), R. Corbet (GSFC/NASA)

WEDNESDAY LATE PAPER TITLES

Session 4 Jets and Blazars

Poster, Wednesday, September 8, 2004,
9:00am-10:00pm, La Nouvelle Orleans Room

- 4.29 Intrinsic Curvature in the X-ray Spectra of BL Lac Objects
E. S. Perlman (JCA/UMBC), G. M. Madejski (SLAC), T. Daugherty (JCA/UMBC), K. Andersson (SLAC), M. Georganopoulos (JCA/UMBC), J. H. Krolik (CAS/JHU), T. A. Rector (U. Alaska/Anchorage), J. T. Stocke (CASA/U. Colorado), P. Padovani (ESO), A. Koratkar (GEST/UMBC), S. Wagner (LSW Heidelberg), M. Aller, H. Aller (U. Michigan), M. G. Allen (CDS)

THURSDAY LATE PAPER TITLES

Session 15 Black Holes Binaries and Intermediate Mass Black Holes

Poster, Thursday, September 9, 2004, 9:00am-10:00pm,
La Nouvelle Orleans Room

- 15.18 Features of the High Frequency QPO Power Spectrum in Accreting Black Holes
J. D. Schnittman (MIT)

Session 17 Neutron Stars and X-ray Binaries

Poster, Thursday, September 9, 2004, 9:00am-10:00pm,
La Nouvelle Orleans Room

- 17.30 Discovery of an X-ray pulsar with 36 sec period in the supernova remnant W63
J. Rho, D. -S. Moon (California Institute of Technology), E. Gotthelf (Columbia University), T. Pannuti (California Institute of Technology), R. Corbet (GSFC/NASA)

FRIDAY LATE PAPER TITLES

Session 30 VERITAS Workshop

Oral, Friday, September 10, 2004, 4:00-6:00pm, Queen
Anne Ballroom

- 30.07I Results from the First HESS MW Campaigns
C. Theoret (APC/PCC College de France), HESS Collaboration

Session 31 Astrostatistics Workshop

Oral, Friday, September 10, 2004, 6:30-8:30pm, Queen Anne Ballroom

- 31.01 Data Analysis Through Segmentation: Bayesian Blocks and Beyond
J. D. Scargle (NASA Ames Research Center)
- 31.021 An Introductory Overview of Statistical Methods for Discrete Time Series
X.-L. Meng (Department of Statistics, Harvard University), California-Harvard AstroStat Collaboration
- 31.03 Challenges in Analyzing Data from the GLAST Large Area Telescope
J. Chiang (GLAST Science Support Center, UMBC/GSFC)
- 31.04 VOSTat: Arming Astronomers with Advanced Statistics
A. Mahabal, S. G. Djorgovski, M. J. Graham, R. Williams (Caltech), E. Feigelson, J. Babu (Penn State), R. Nichol, D. Vanden Berk, L. Wasserman (CMU)

SATURDAY LATE PAPER TITLES

Session 35 Surveys and the Cosmic X-ray Background

Oral, Saturday, September 11, 2004, 4:00-5:38pm, Queen Anne Ballroom

- 35.011 Deep X-ray Surveys and AGN Populations
C. M. Urry (Yale University)

Session 36 Galaxy Clusters and the Intergalactic Medium

Poster, Saturday, September 11, 2004, 9:00am-5:00pm, La Nouvelle Orleans Room

- 36.01 Do Small Groups of Galaxies Contain Hot Gas?
D. S. Spiegel, F. Paerels, C. Scharf (Columbia University)
- 36.02 Chandra and XMM-Newton Observations of the Galaxy Cluster 3C 129 and its Head-Tail Radio Galaxy 3C 129
J. S. Perkins, H. Krawczynski (Washington University in St. Louis), D. Harris (Harvard-Smithsonian Center for Astrophysics)
- 36.03 On a possible role of charge-transfer induced X-ray emission in the ISM-ICM
R. Lallement (CNRS (France))
- 36.04 Complex structure of galaxy clusters Abell 1689 and Abell 2218
G. Madejski (KIPAC/Stanford and SLAC), K. Andersson (KTH/Stockholm and SLAC), J. Peterson, P. Marshall (KIPAC/Stanford and SLAC)

Saturday sessions

Session 37 Surveys and Active Galactic Nuclei Poster, Saturday, September 11, 2004, 9:00am-5:00pm, La Nouvelle Orleans Room

- 37.01 The Subaru XMM-Newton Deep Survey (SXDS)
M.G. Watson (Univ.of Leicester), Y. Ueda (ISAS/JAXA), M. Akiyama, K. Sekiguchi (Subaru/NAOJ), SXDS Collaboration
- 37.02 Transient Fe Emission features in AGN: A new diagnostic of Accreting Systems
T.J. Turner (UMBC/GSFC), J.R. Reeves (JHU), I.M. George (UMBC/GSFC), S.B. Kraemer (CUA/GSFC)
- 37.03 The Central Engines of LINERs as viewed b CHANDRA
H. Flohic, M Eracleous, G. Chartas (Penn State), E. Moran (Wesleyan U.), J. Shields (Ohio U.)
- 37.04 The BMW-Chandra Serendipitous Source Catalog
P. Romano, S. Campana (OAB), R.P. Mignani (ESO-Garching), A. Moretti (OAB), M. Mottini (ESO-Garching), M.R. Panzera, G. Tagliaferri (OAB)
- 37.05 Angular and Spatial Correlation Functions of X-ray Selected AGNs
Y. Yang (UMCP & GSFC), R. F. Mushotzky (NASA/GSFC), A. J. Barger (U. Wisc.), L. L. Cowie (U. Hawaii), A. T. Steffen (PSU)
- 37.06 The Serendipitous Extragalactic X-Ray Source Identification (SEXSI) Program
M.E. Eckart, F.A. Harrison (Caltech), D.J. Helfand (Columbia University), D. Stern (Jet Propulsion Laboratory)
- 37.07 The Calan-Yale Deep Extragalactic Research (CYDER) Survey: Optical Properties and Deep Spectroscopy of Extragalactic Serendipitous X-Ray Sources
P.S. Coppi, E. Treister (Yale University), F.J. Castander (Institut d'Estudis Espacials de Catalunya/CSIC), T.J. Maccarone (University of Amsterdam), E. Gawiser (Yale University), Jose Maza (Universidad de Chile), David Herrera, C.M. Urry (Yale University), V. Gonzalez, C. Montoya, P. Pineda (Universidad de Chile)

Session 38 Jets and Blazars Poster, Saturday, September 11, 2004, 9:00am-5:00pm, La Nouvelle Orleans Room

- 38.01 The impact of thermal gas in AGN jets on the low-frequency emission
M. Pohl (Iowa State University), M. Siewert (Ruhr-Universitaet Bochum, Germany)
- 38.02 An Optically Selected Sample of BL Lac Objects
D.M. Londish (JPL, Caltech; University of Sydney), S.M. Croom, B.J. Boyle, E.M. Sadler (Anglo-Australian Observatory)
- 38.03 Hadronic Synchrotron Mirror Model for Orphan TeV Flares in Blazars
M. Boettcher, S. Postnikov (Ohio University)
- 38.04 On the intrinsic spectrum of PKS 2155-304 from the H.E.S.S. 2003 data.
L. Costamante, F. Aharonian, W. Benbow, D. Horns (MPI-K), A. Reimer, O. Reimer (Ruhr-Universitt Bochum), G. Rowell (MPI-K), HESS Collaboration
- 38.05 X-ray Variability of the Broad Line Radio Galaxy 3C 120
K. Marshall, H. R. Miller (GSU), A. P. Marscher, S. G. Jorstad (BU)

Saturday sessions

- 38.06 Large zenith angle observations of flares from Mkn421 in 2004 with H.E.S.S.
D. Horns (Max-Planck-Institut f. Kernphysik, Heidelberg Germany), M. Beilicke (Universität Hamburg, Institut f. Exp.Physik), A. Lemière (PCC, IN2P3 Collège de France, Paris), W. Benbow (Max-Planck-Institut f. Kernphysik, Heidelberg Germany), M. de Naurois, L. Rolland (LPNHE Jussieu, Paris), G.P. Rowell (Max-Planck-Institut f. Kernphysik, Heidelberg Germany), HESS Collaboration
- 38.07 The Character of Optical Variability for X-Ray Selected Blazars
A.M. Campbell (GSU,LSU), H.R. Miller (GSU)

Session 39 Pulsars and Neutron Stars Poster, Saturday, September 11, 2004, 9:00am-5:00pm, La Nouvelle Orleans Room

- 39.01 Thermal Emission from Neutron Stars with no Atmosphere
S. Zane (MSSL, Univ. College of London), R. Turolla (Dept. of Physics, Univ. of Padova), J.J. Drake (Smithsonian Astrophysical Observatory, Cambridge)
- 39.02 Thermal Emission from Isolated Neutron Stars and their Surface Magnetic Field: Going Quadrupolar ?
S. Zane (MSSL, University College of London), R. Turolla (Dept. of Physics, Univ. of Padova)
- 39.03 Recent Theoretical Works on Matter and Radiation in Strong Magnetic Fields and Thermal Emission from Neutron Stars
D. Lai (Cornell University), W.C.G. Ho (KIPAC, Stanford University), Z. Medin (Cornell University), A. Potekhin (Ioffe Institute), M. van Adelsberg (Cornell University), G. Chabrier (Lyon)

Session 40 Black Hole and Neutron Star Binaries

Poster, Saturday, September 11, 2004, 9:00am-5:00pm, La Nouvelle Orleans Room

- 40.01 Inclination Angles of Black Hole X-ray Binaries Manifest Strong Gravity around Black Holes
X.L. Zhang, S.N. Zhang, Y.X. Feng (UAH/NSSTC), Y.S. Yao (UMASS)
- 40.02 Multiwavelength Correlations in V404 Cyg in Quiescence
R. I. Hynes (Louisiana State University), P. A. Charles (University of Southampton), M. R. Garcia (Harvard-Smithsonian Center for Astrophysics), E. L. Robinson (The University of Texas at Austin), J. Casares (Instituto de Astrofísica de Canarias), C. A. Haswell (The Open University), A. K. H. Kong (Harvard-Smithsonian Center for Astrophysics), M. Rupen (National Radio Astronomy Observatory), R. P. Fender (The University of Amsterdam), R. M. Wagner (Large Binocular Telescope Observatory), E. Gallo (The University of Amsterdam), B. A. C. Eves (The Open University), T. Shahbaz (Instituto de Astrofísica de Canarias), C. Zurita (University of Lisbon)
- 40.03 Detailed spectral analysis of the 260 ksec XMM-Newton data of 1E1207.4-5209 and significance of a 2.1 keV absorption feature
K. Mori (Canadian Institute for Theoretical Astrophysics), C.J Hailey, J. Chonko (Columbia Astrophysics Laboratory)

Saturday sessions

- 40.04 GRO J2058+42 Observations with Chandra and Detection of a Likely Optical Counterpart
C.A. Wilson, M.C. Weisskopf (NASA/MSFC/NSSTC), M.H. Finger (NSSTC), M.J. Coe (Univ. of Southampton), J. Greiner (MPE Garching), P. Reig, G. Papamastorakis (Univ. of Crete/IESL)
- 40.05 Discovery of the Neutron Star Spin Frequency in EXO 0748–676
A. R. Villarreal (University of Arizona), T. E. Strohmayer (NASA/GSFC)
- 40.06 Spectral Evolution of X-ray Outbursts from Neutron-Star Transients
D. Lin, R. Remillard (MIT)
- 40.07 Hard X-ray Observations of XTE J1807-294
M. H. Finger (USRA), C. A. Wilson (NASA / MSFC)

Session 41 Missions, Instruments and Data Analysis

**Poster, Saturday, September 11, 2004, 9:00am-5:00pm,
La Nouvelle Orleans Room**

- 41.01 The GLEPS Package for Simulating Polarized Gamma Rays with GEANT3
M. L. McConnell (UNH), R. M. Kippen (LANL)
- 41.02 Adding a Gamma-Ray Lens to ACT - Looking Deeper into the Fires of Creation
C.B. Wunderer (SSL/UCB), P. v. Ballmoos (CESR), S.E. Boggs, W. Coburn (SSL/UCB), H. Halloin (MPE), G.K. Skinner (CESR)
- 41.03 The Large Millimeter Telescope: joint opportunities with GLAST
A. Carramiñana (INAOE, Tonantzintla, México)
- 41.04 MGGPOD Version 1.1: a Monte Carlo Simulation Tool to Assess the Performance of Advanced Compton Telescopes
G. Weidenspointner (CESR, France), S. Sturmer (NASA/GSFC, USA), E. Novikova (NRL, USA), A. Zoglauer (MPE, Germany), S. Boggs, C. Wunderer (UC Berkeley), M. Kippen (LANL, USA), M. Harris (CESR, France), ACT Collaboration
- 41.05 Nuclear Spectroscopic Telescope Array (NuSTAR) mission: Imaging the Hard X-ray Sky
F. Harrison (Caltech), NuSTAR Science Team
- 41.06 Progress in X-ray CCD Performance for the Astro-E2 X-ray Imaging Spectrometer
M. W. Bautz (MIT Center for Space Research), Astro-E2 XIS Instrument Team
- 41.07 Planning Your Observations with the Spitzer Space Telescope
D. W. Hoard, L. M. Rebull (SSC/IPAC/Caltech), Spitzer Observer Support Team

Session 42 Gamma-ray Bursts

**Poster, Saturday, September 11, 2004, 9:00am-5:00pm,
La Nouvelle Orleans Room**

Saturday sessions

- 42.01 The discovery of SN2003lw associated to GRB031203: its properties and those of the Host Galaxy
G. Tagliaferri (INAF - Osservatorio Astronomico di Brera), G. Chincarini (Universita' degli Studi di Milano-Bicocca), D. Malesani (International School for Advanced Studies (SISSA-ISAS)), S. Covino, D. Fugazza (INAF - Osservatorio Astronomico di Brera), M. Della Valle (INAF - Osservatorio Astrofisico di Arcetri), S. Campana, P. D'Avanzo, S. Kalogerakos (INAF - Osservatorio Astronomico di Brera), L. Stella (INAF - Osservatorio Astronomico di Roma)
- 42.02 Observing GRBs in the NIR with SLOTIS
P.A. Milne (Steward Observatory), H.-S. Park (LLNL), G.G. Williams (MMTO)
- 42.03 High Energy Observations of XRF030723
N. Butler (MIT), T. Sakomto, M. Suzuki (TITECH), D. Q. Lamb, C. Graziani, T. Q. Donaghy (U. Chicago), A. Dullighan, R. Vanderspek, G. Crew, P. Ford, G. Ricker (MIT), HETE Team
- 42.04 GRB 930131 - A test case for the BATSE Albedo Polarimetry System.
D. R. Willis, A. J. Dean (The University of Southampton, UK.)
- 42.05 A Statistical Analysis of the Supernova / Gamma-ray Burst Connection
E. C. Ricks (Universities Space Research Association), G. A. Richardson (University of Alabama Huntsville), S. K. Patel (Universities Space Research Association), C. Kouvelioutou (Marshall Space Flight Center, NASA)

Session 43 Cosmic Rays

**Poster, Saturday, September 11, 2004, 9:00am-5:00pm,
La Nouvelle Orleans Room**

- 43.01 Cosmic-ray propagation properties for an origin in SNRs
I. Buesching (Ruhr-University Bochum, Germany), M. Pohl (Iowa State University)

Session 44 Workshops

**Poster, Saturday, September 11, 2004, 9:00am-5:00pm,
La Nouvelle Orleans Room**

- 44.01 Inference—A Python Package for Astrostatistics
T. J. Loredo (Dept. of Astronomy, Cornell University), A. Connors (Eureka Scientific), T. E. Oliphant (Dept. of Electrical and Computer Engineering, Brigham Young University)
- 44.02 First Results of the Full HESS Array
C. Theoret (APC/PCC College de France), HESS Collaboration
- 44.03 An Alignment Error Budget for the Generation X Telescope
J.W. Arenberg (Northrop Grumman Space Technology)

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