

Media Advisory - Section of American Astronomical Society to hold meeting to discuss results from HEAO-A Satellite

August 15, 1978

MEDIA ADVISORY

ATTENTION: SCIENCE WRITERS

SECTION OF THE AMERICAN ASTRONOMICAL SOCIETY TO HOLD MEETING AT UNIVERSITY OF CALIFORNIA, SAN DIEGO TO DISCUSS RESULTS FROM HEAO-A SATELLITE.

WHERE: Room 107 Third College Lecture Hall, University of California, San Diego.

WHEN: September 12-14, 1978. Sessions will begin at 9 a.m. and 2 p.m.

REMARKS: The HEAO-A satellite was launched into Earth orbit in August 1977. One of its main purposes was to study X-ray sources throughout the galaxy. One of four experiments aboard HEAO-A was designed by Dr. Laurence E. Peterson, professor of physics at UC San Diego, who is putting together the AAS meeting here. The meeting is not open to the public, but the press is invited to attend. About 150 scientists from throughout the United States are expected to attend the meeting.

FOR FURTHER INFORMATION: Contact PAUL LOWENBERG, Public Information Office (714) 452-3120 or DR. RICK ROTHCHILD (714) 452-2512.

(August 15, 1978)

PROGRAM OF PAPERS

HEAD MEETING OF THE AAS, THIRD COLLEGE LECTURE HALL 107, UCSD, LA JOLLA, CALIFORNIA, SEPT. 12-14, 1978

Allocated time in parenthesis includes speaker set-up, presentation, and discussion.

Invited speakers denoted by asterick

Session A: 0900 Tues. , 12 Sept. - POSITIONS, IDE-L, TITFT CATIONS, AND CLUSTERS OF GALAXIES, Chairperson, - R. McGRAY.

"A1: Introductory Remarks - L. PETERSON (10)

*A2: The HEAO Spacecraft. J. LINDNER (15)

*A3: The HEAO A-1 All Sky X-ray Survey. H. FRIEDMAN (30) 'A4: Extragalactic Results from the Scanning Modulation Collimator on HEAO-I. SCHWARTZ, BRADT, BRIEL, DOXEY, FABBIANO, GRIFFITHS, JOHNSTON & SCHWARZ (30)

A5: Positions of Compact Galactic X-ray Sources from HEAO-A3. BRADT, DOXSEY, GRIFFITHS, JOHNSTON, SCHWARTZ SCHWARZ (10)

"A6: The Optical Counterparts of Compact Galactic X-ray Sources. B. MARGON (30)

A7: Recent Identifications of Galactic X-ray Sources with the HEAO-I Scanning Modulation Collimator. DOXSEY, BRADT, GRIFFITHS, GRIN-IDLAY, JOHNSTON, SCHWARTZ & SCHWARZ (10)

A 8: Preliminary Results from the 3A Catalogue of X-ray Sources. MCHARDY, LAWRENCE, RICKETTS, ELVIS, PAGE, PYE & POUNDS (10)

A9: Identification- of Sources in the 3A Catalogue. LAWRENCE, MCHARDY, ELVIS, RICKETTS & WARD (10)

A10: Locations and X-ray Sizes of Abell Clusters Observed with the HEAO-1_ Modulation Collimator. BRIEL, SCHWARZ, DOXSEY, SCHWARTZ, FABBIANO & BRADT (10)

All: HEAO-1 A-1 Survey of Clusters of Galaxies. SHULMAN, CRUDDACE, KINZER, WOOD, MEEKINS, SHARE, YENTIS, BYRAM, CHUBB, FRIEDMAN & ULMER (10)

A12: Observations of the Lunar Occultation of Abell 401 with HEAO-1 A-1. ULMER, CRUDDACE, KINZER, WOOD, EVANS & BYRAM (10)

A13: SAS-3 Observations of Abell 2029. JOHNSON & SCI-TNOPPER (10)

A14: HEAO-1 Observations of Iron Line Emission from Clusters of Galaxies. LEA, MASON, REICHERT, LAMPTON & RIEGLER (10)

A15: Search for Pointlike X-ray Components in the Perseus, Virgo, and Coma Clusters with the HEAO-I Modulation Collimator. SCHWARZ, JOHNSTON, GRIFFITHS, DOXSEY, SCHWARTZ & BRADT (10)

B20: A Deep X-ray Survey of the Large Magellanic Cloud with the HEAO-1 Modulation Collimator. JOHNSTON, BRADT, DOXSEY, SCHWARTZ & SCHWARTZ (10)

B21: A Study of the Soft X-ray Emission of the Large Magellanic Cloud. NUGENT, GARMIRE & TUOHY (10) B22: H E _AO A-2 Observations of the LMC. SZYIKOWIAI, SHAFER, BOLDT, HOLT, SERLIMITSOS & ROTHSCHILD (10)

Session C: 0900 Wed., 13 Sept. - PULSARS AND PULSATORS.

Chairperson - S. LEA.

C1: A Low Energy X-ray Survey from HEAO-I. RIEGLER (30)

The 2 to 60 keV Spectrum of Cosmic X-Ray Sources. MARSHALL (30)

C 3: X-ray Observations as a Probe of Accretion Flows and Neutron Star Structure.I. PINES (20)

C4: X-ray Observations as a Probe of Accretion Flows and Neutron Star Structure. II. LAMB (20)

C5: Long-Term Studies with the Ariel-5 ASM. HOLT, KALUZIENSKI, BOLDT & SERLEMITSOS (10)

C6: HEAO-1 Observations of the Soft X-Ray Spectrum of Hercules X-1. KAHN, MASON, CHARLES & LAMPTON (10)

C 7: Hard X-Ray Pulsed Spectrum of Hercules X-1 from HEAO-I. GRUBER, MATTESON, PETERSON, DOTY, COOKE, WHEATON & LEWIN (10)

C8: Pulse Profiles and Spectra of Fast X-ray Pulsars. WHEATON, HOWE, GOLDMAN, COOKE & LEWIN (10)

C9: Observations of the Transient X-Ray Source 4UO115+63. ROSE, PRAVDO, KALUZIENSKI, MARSHALL, HOLT, BOLDT, ROTHSCHILD & SERLEMITSOS (10)

C10: Spin Evolution of Pulsating X-ray Sources. GHOSH & LAMB (10)

C11: Mass Outflow From Accretion Disks. BARDEEN (10)

C12: HEAO-A4 Hard X-ray Observations of Slow X-ray Pulsars. DOTY, LEVINE, DOBSON, HOFFMAN, COOKE & LEWIN (10)

C13: Observations of Three Slow X-Ray Pulsars From HEAO-I. KNIGHT, MATTESON, GRUBER, PETERSON, COOKE, CAMPBELL, WHEATON & LEWIN (10)

C14: Recent Observations of X-Ray Pulsars with Copernicus and Ariel V. MASON, WHITE & SANFORD (10)

C15: X-Ray Spectra of X Per. BECKER, BOLDT, HOLT, PRAVDO, ROBINSON- SABA, SERLEMITSOS & SWANK (10)

BUSINESS MEETING 1230 (10)

Session D: 1400 Wed., 13 Sept. - SUPERNOVA REMNANTS AND BINARIES. Chairperson - S. SHULMAN.

*D1: Supernovae as Discrete X-ray Sources. FALK (30)

D2: Soft X-ray Observations of SN1006 by HEAO-1. GALAS, TUOHY & GARMIRE (10)

D3: HEAO-I Observations of Low Energy X-ray Line Emission from Supernova Remnants. MASON, CHARLES & BOWYER (10)

D4: X-ray Images of Three Supernova Remnants. PETRE, LEVINE, RAPPAPORT, EVANS, KAYAT & SMITH (10)

D5: Preliminary Results of the UCSD/ISAS Program to Map the Distribution of High Energy X-rays from the Crab Nebula. MUSHOTSKY, PACICSAS, PELLING, PETERSON, SAKAI, MAKISHIMA, MIYAMOTO & ODA (10)

D6: Iron Features in the Spectra of X-ray Binaries. BASKO (30)

D7: Iron Line Features of X-ray Binaries. BAI (10)

D8: The 1978 Optical and X-ray Outburst of Aql X-1. CHARLES, THORSTENSEN, WALTER, BOWER, KALUZIENSKI, HOLT, CLARK, VAN PARADIJS, REMILLARD, PUETTER, SMITH, SANFORD, TAPIA & VRBA (10)

D9: Observations of Low Luminosity Optical Counterparts of X-ray Sources. THORSTENSEN, CHARLES & BOWYER (10)

D10: Simultaneous Optical and X-ray Observations of the Seven Second Pulsar 4U1626-67. CAPNIZARES, McCLINTOCK & GRINDLAY (10)

D11: Recent Observations of X-ray Pulsars with SAS-3. LI, RAPPAPORT, JERNIGAN & McCLINTOCK (10)

D12: X-ray Pulsations from SS Cygni. CORDOVA, GARMIRE & TUOHY (10)

D13: Pointed Observations of AM Herculis from HEAO-I. TUOHY, LAMB, GARMIRE, CORDOVA & MASON (10)

D14: HEAO-1 Observation of AM HER Above 15 keV. ROTHSCHILD NOLAN, PETERSON, WHEATON, HOFFMAN & LEWIN (10)

D15: Low-Energy X-ray Observations of the Algol Region. RIEGLER, CORDOVA, PRINGLE & BLANFORD (10)

D16: Models of Stellar Coronae. ANTIOCHOS, UNDERWOOD & VESECKY (10)

D17: Observational Constraints on Models for Stellar Coronae. CASH (10)

D18: HEAO-I Observations of Nearby RS CVn Systems. WALTER, CHARLES & BOWYER (10)

D19: HEAO-1 Soft X-ray Constraints on Hot White Dwarfs. LAMPTON & KAHN (10)

D20: Polynomial Grazing Incidence Telescopes. CASH & BOWYER (10)

Session E: 0900 Thurs., 14 Sept. GAMMA RAYS AND BLACK HOLES. Chairperson - E. CHUPP

*E1: Recent Results from HEAO A-4 (10-1.50 keV). LEWIN (30)

*E2: Recent Results from HEAO A-4 (.1-10 MeV). MATTESON (30)

*E3: Gamma Ray Lines from the Galactic Center. LEVENTHAL (30)

E4: Variability of Cygnus X-1 on Millisecond Timescales. MEEKINS, BYRAM, HEDLER, EVANS, WOOD, YENTIS, CHUBB & FRIEDMAN (10)

E5: Time variability of Cygnus X-1 from SAS-3 Data. SUTHERLAND, WEISSKOPF & CATNIZARES (10)

E6: The Short-Timescale X-ray Variability of Cygnus X-1. CANIZARES, LI & BRENNAN (10)

E7: HEAO A-4 Hard X-ray Spectral and Temporal Analysis of Cygnus X-1. NOLAN, MATTESON, ROTHSCHILD, PETERSON, DOBSON, HOWE, HOFFMAN & SCHEEPMAKER (10)

E8: High Energy X-ray Variability of Cygnus X-1. PACIESAS & PELLING (10)

E9: The Short-Term Time Variability of Circinus X-1 - A Comparison with Cygnus X-1. WEISSKOPF & SUTHERLAND (10)

E10: Optically Thick Accretion Onto Black Holes. GILDEN & WHEELER (10)

E-11: eipair Production in Hot X-ray Disks. LIANG (10) Theoretical Eccentric Orbit Velocity Curves for the Optical Components of X-ray Binaries. WILSON (10)

E-12: Observations of Cosmic X-ray Sources with the High-Energy Scintillation Spectrometer on OSO-8. DENNIIS, CRANNELL, DOLAN, FROST ORWIG, BE-ALL & MAURER (10)

E13: Hard X-ray Observations of Sco X-1 and Sco-like Sources. COE, DENNIS, GREENHILL, BELL-BURNELL & STRONG (10)

Session F: 14-90 Thurs., 14 Sept. GAMMA RAY BURSTS, BURSTERS, AND TRANSIENTS. Chairperson - C. FORMAN-JONES

"F1: Recent Cos-B Results. WILLS (30)

F2: Contribution of Discrete γ -ray Sources to the Disk Emission. ROTHENFLUG & CARAVEO (10)

F3: Interpretation of High Energy Gamma Ray Results. BIGNAMI (10)

F4: Search for Point Sources of 1011 eV Gamma Rays. WEEKES & HELMKEIN (10)

F5: HEAO-I A-4 Observations of Two Cosmic Gamma Ray Bursts. KNIGHT, MATTESON, GOOD & PETERSON (10)

F6: Observation of γ -ray Bursts with the HEAO A-I X-ray Experiment. SHARE, EVANS, BYRAM, WOOD, HEDLER, CHUBB & FRIEDMAN (10)

F7: Discovery of Optical Bursts from an X-ray Burst Source, MXB1735-44. McCLINTOCK, GRINDLAY, CANIZARES, van PARADIJS, COMINSKY, LI & LEWIN (10)

F8: Studies of the Optical Counterparts of Three X-ray Bursters. GRINDLAY, CANIZARES & McCLINTOCK (10)

F9: HEAO A-2 Observations of X-ray Bursts. SWANK, BOLDT, HOLT, ROTHSCHILD & SERLEMITSOS (10)

F10: SAS-3 Observations of the Transient X-ray Burst Source MXB 1659-29. LEWIN, PARADIJS, COMINSKY & LEWIN (10)

F11: Temporal Studies of Several X-ray Sources in Globular Clusters LI & CLARK (10)

F12: Comparison of Burst and Non-Burst Sources. WORRALL, SWANK, BOLDT, HOLT & SERLEMITSOS (10)

F13: Search for Spectral Changes in the "Steady" Emission of X-ray Burst Sources. PARADIJS, COMINSKY & LEWIN (10)

F14: Search for Eclipses and Periodicities in the "Steady" Emission from X-ray Sources. COMINSKY, MARSHALL, LI, PARADIJS & LEWIN (10)

F15: High Latitude Transient X-ray Sources Discovered with the Ariel V Sky Survey. RICKETTS, COOKE & PYE (10)

F16: Observations of an X-ray Flare at High Galactic Latitude, KALUZIENSKI, ROBINSON-SABA, BOLDT, HOLT, MUSHOTZKY, ROTHSCHILD & SERLEMITSOS (10)

F17: HEAO-1 Response to Solar Gamma Rays. HUDSON, BAITY, GRUBER, KNIGHT, NOLAN, MATTESON & PETERSON (10)

F18: Background Contributions from Thermal Neutrons in a Balloon-Borne Shielded Ge(Li) Spectrometer. MAHONEY, LING, RIEGLER, WILLETT & JACOBSON (10)