

VITA

MARTIN S. ELVIS
Senior Astrophysicist

Home Page: <http://hea-www.harvard.edu/~elvis>

1. Education:

Bristol University, B.Sc., Physics (1973)
Sussex University, M.Sc., Astronomy (1974)
Leicester University, Ph.D., X-ray Astronomy (1978)

2. Positions Held:

1977-1978 Research Associate, University of Leicester
1978-1980 SRC Postdoctoral Research Fellow, University of Leicester and Harvard
Smithsonian Center for Astrophysics
1980- Associate, Harvard College Observatory
1980-1993 Astrophysicist (Trust), Smithsonian Astrophysical Observatory
1989-1998 Lecturer, Harvard College Observatory
1993-1997 Astrophysicist (Federal), Smithsonian Astrophysical Observatory
1997- Senior Astrophysicist (Federal, Senior Level), Smithsonian Astrophysical
Observatory

3. Professional Appointments: (*see Section 8 for detailed responsibilities*)

1977-1978 Scientist, Ariel V Sky Survey Instrument Data Analysis.
1978-1981 Scientist, Einstein Observatory Mission Operation and Planning.
1981-1983 Scientist, Einstein Observatory Data Processing System.
1984-1991 Senior Scientist, Einstein Observatory Analysis System.
1991-2004 *Chandra* X-ray Center, Science Data System Group Leader.
1996- 2003 XMM Survey Science Center, Associate Scientist.
2007- Magdalena Ridge Observatory Science Working Group
2007- Adjunct Faculty, New Mexico Institute for Mining & Technology

4. Publications: (*see Bibliography for details*)

302 papers in refereed journals (ADS 15 Sept 2010); (81 since 2005 PAEC).
ISI Highly Cited Researcher (Original member of top 250 Astronomers, 2002).
URL: isihighlycited.com
15113 citations (ADS, 15Sept2010); h-index = 67; m-index = 2.1 (Hirsch astro-ph/0508025); mean
cites/paper 50.

5. Professional Societies:

International Astronomical Union
Fellow of the Royal Astronomical Society (RAS)
American Astronomical Society (AAS)
Associate, COSPAR
Society of Photo-Optical Instrument Engineers (SPIE)
American Association for the Advancement of Science (AAAS)

6. Prizes and Awards

2007 Pirelli International 2006 Multimedia Science Communication Prize (with K.Kowal, A. Hobart, M.Watzke]

7. Professional Activities (Astrophysics):

6a. Committees

1987 HEAD-AAS Nominating Committee.
1988-1991 NASA Gamma Ray Observatory (GRO) Users' Committee
1989-1990 Secretary to the NASA Astrophysics Subcommittee (AMOWG).
1989-1992 NASA High Energy Astrophysics MOWG
1991-1993 **Chair**, NASA HEASARC Users' Committee
1994-1995 Past-Chair, NASA HEASARC Users' Committee
1993 Vice-Chair, High Energy Astrophysics Division, AAS
1994-1995 **Chair**, High Energy Astrophysics Division, AAS
1996-1997 Former Chair, High Energy Astrophysics Division, AAS
1995-1996 Co-Chair, CfA Colloquium Organizing Committee
1996-1997 NAS/NRC Task Group on Space Astronomy & Astrophysics
(‘TGSAA’, ‘Thaddeus’ Committee’)
1996-1999 NRAO Users' Committee
1997-1998 AAS Committee on Astronomy and Public Policy (‘CAPP’)
2002-2004 Space Telescope Users Committee (‘STUC’)
2005-2007 **Chair**, Space Telescope Users Committee (‘STUC’)
2004-2006 AAS Heinemann Prize Committee

6b. Meetings Organization

1985-1986 Scientific Organizing Committee, ESA Workshop “*Physics of Accretion onto Compact Objects*” Tenerife, Spain.
1987 Panel Member, NASA Astrophysics Data Systems Workshops.
1987-1988 **Chair**: Local Organizing Committee; SOC , “*From Einstein to AXAF*” Symposium, Cambridge, MA.
1989 Scientific Organising Committee, “*High Energy Astrophysics in the 21st Century*”, Taos NM
1993 Session Organiser, IAU 6th Asian Pacific Regional Meeting on Astronomy, Pune, India

- 1994 **Chair**, Scientific Organizing Committee “1994 High Energy Astrophysics Division Meeting: The Multi-Mission Perspective”, Napa, CA
- 1995 **Chair**, Scientific Organizing Committee ASC Workshop, “Rates, Codes and Astrophysics”, Cambridge, MA
- 1995-1996 SOC “X-ray Imaging & Spectroscopy of Cosmic Hot Plasmas”, Tokyo, Japan.
- 1995-1996 **Chair**, SOC AAS-HEAD Divisional Meeting, San Diego, CA.
- 1997 SOC “X-ray Surveys”, Potsdam, Germany
- 1997 SOC AAS-HEAD Divisional Meeting, Estes Park, CO
- 1997 SOC “Luminosity Effects in Quasars”, La Serena, Chile
- 1998 SOC “Heating and Acceleration in the Universe”, Tokyo, Japan.
- 1998-1999 SOC “X-ray Surveys and the History of Accretion in the Universe”, Roma, Italy.
- 1999-2000 SOC “Galaxies and their Constituents at the Highest Angular Resolution”, IAU Symposium No. 205, Manchester, England.
- 2001 SOC “Workshop of X-ray Spectroscopy of AGN with Chandra and XMM-Newton”, MPE Garching, Germany, December 2001.
- 2003 SOC “AGN Physics with SDSS”, Princeton, July 2003
- 2004 Organizer; AAS Atlanta, GA Special Session “The Warm-Hot Intergalactic Medium: the main baryon reservoir in the Local Universe.”
- 2004 SOC “X-ray and Radio Connections”, Taos, NM, Feb 3-6.
- 2004-2005 SOC “AGN and Galaxy Evolution”, Castel Gandolfo, Italy, Oct 3-6
- 2005 SOC “AGN Winds in the Caribbean”, St. John USVI, Nov29-Dec2
- 2005 **Co-chair**, AAS DC meeting Special Session “Extreme Physics from Compact Objects” (with M.C. Miller)
- 2005-2006 **Co-chair**: COSPAR session on “Challenges in High Resolution Space Astronomy: Astrophysics, Technology and Data”, Beijing, China, 16-23 July
- 2007 **Co-chair**: ‘The Impact of AGN Feedback on Galaxy Formation’, Ringberg Castle, Germany, May 2007.
- 2008 SOC, “International Workshop on Astronomical X-Ray Optics”, Prague, CZ, Dec 2008.
- 2009 SOC, “Evolution of Galaxies and Central Black Holes: Feeding and Feedback”, IAU Symposium 267, Rio de Janeiro, August 2009.
- 2010 SOC, “The Growth of Supermassive Black Holes”, Durham, UK, July 2010
- 2010 SOC, “High Energy View of Accreting Objects: AGN and X-ray Binaries”, Crete, Greece, October 2010.
- 2011 SOC, “Wideband X-ray Astronomy”, IUCAA, Pune (India), Jan. 2010.
- 2011 SOC, “Science with Optical Interferometry”, UNM, Socorro, NM, Mar. 2011.

6c. Proposal Review Committees

- 1989 HST Proposal Review Committee (A01)
- 1989 NASA Astrophysics Software and Research Aids proposal Review Committee.
- 1993 ROSAT Proposal Review Committee (A04)
- 1994 ASCA Proposal Review Committee (A02)
- 1997 HST Proposal Review Committee (NICMOS)
- 1998 **Associate Chair**, HST Extragalactic Archive Panel
- 2000 NASA Cross Enterprise Technologies Development Review
- 2001 **Chair**, HST Extragalactic Panel, Cycle 11
- 2001 HST Time Assignment Committee, Cycle 11
- 2004 **Panel Chair**, TAC member, Spitzer Cycle 2
- 2004 NSF EVLA-II Review committee
- 2007 Suzaku Time Assignment Committee, Cycle 2
- 2006-2009 NRAO VLA/VLBI Proposal Selection Committee (PSC)

6d. Refereeing Activities

- Books - AGN book proposals for Wiley, CUP.
- Proposals - NASA, NSF proposals
- Papers - ApJ, ApJ Letters, AJ, A&A, PASJ, Nature, PASP, MNRAS
- Tenure Applications - Responded to requests for assessment (3-4/year)

6e. Mission Development

1985- 2001 Co-Investigator AXAF High Resolution Camera.
1990-1991 Co-Investigator, LAMAR on Space Station
1998-2002 MAXIM Science Working Group
1998- EXIST Science Working Group
1998-2004 KRONOS Science Team
2004-2006 Gen-X NASA Vision Mission Steering Committee Science Lead
2004- Pharos: The Missing Baryons Explorer: PI
2004- Extreme Physics Explorer: PI

6f. Other

1987 Invited Participant, Program on Active Galactic Nuclei, Institute for Theoretical Physics, UC, Santa Barbara.
1989 Author, "GRO Guest Observer Data Analysis" ('Elvis Report')
1990 Editor, "Imaging X-ray Astronomy: A Decade of *Einstein* Observatory Achievements" [Cambridge: CUP].
1990-1991 Co-editor HEAO Newsletter
1990 Nominator, 1991 Crafoord Prize
1997 Visiting Scientist, Space Telescope Science Institute

7. Professional Activities (Educational):

7a. Graduate Student Supervision

1990-1991	Aneta Siemiginowska, Copernicus Institute, Warsaw, PhD. (CfA predoc)
1990-1991	Andrea Comastri, U. Bologna, PhD.
1990-1996	Olga Kuhn, Harvard University, PhD
1993-1994	Tom Aldcroft, Stanford, physics PhD.
1994-1995	Paolo Ciliegi, U. Milano, PhD. (CfA predoc)
1996-1999	Fabrizio Nicastro, U. Rome, PhD.
1999-2000	Frank Tesch, U. Hamburg, PhD.
1999	Evanthia Hatziminaoglou, Toulouse, PhD (Summer)
1999-2001	Ilaria Cagnoni, SISSA, Trieste, PhD.
2000-2001	Guido Risaliti, Oss. Arcetri, Firenze, PhD
2006-2010	Monica Young, Boston University, PhD.
2008-2009	Mercedes Andrade-Velazquez, UNAM, PhD
2008	Omaira Gonzalez-Martin, Granada, PhD
2006-2007	David English, Southampton University, MSc
2009-2010	Yuan Liu, Tsinghua University (Beijing), PhD
2007-2010	Susmita Chakravorty, IUCAA Pune (India), PhD
2008-2010	Charles Steinhardt, Harvard University, PhD.
2005-	Heng Hao, Harvard University, PhD.

Research Assistants continuing to Grad. School:

J. Bechtold, S. Baum, M. Henriksen, A. McDonald, C. Fassnacht (Caltech 1994); S. Oey (Steward, 1990), C. Prescod-Weinstein (Perimeter Institute, 2010), Krista McCord,

7b. Graduate Student Thesis Committees

1986	Andrzej Zdziarski (Harvard)
1989	Roger Brissenden (ANU)
1998-1999	Joanna Kuraszkiewicz (SISSA)
1999	A. Ivan (Northeastern)
2002-2005	Gregg Ball (Harvard)
2002	Jenny Greene (Harvard)
2003	Malgozata Sobolewska (Warsaw)
2005-2007	Paul Kondratko, chair (Harvard)
2009-	Sophia Dai (Harvard)
2009-	Vivian U (Harvard)
2009-	Sumin Tang (Harvard)

7c. Lecturing

1985	Guest Lecturer, University of Minnesota.
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- 1990,1995 Guest Lecturer, Harvard Astronomy Department, (R. Noyes, J.Luu)
- 1990,1994 Guest Lecturer, Harvard Astronomy Department, High Energy Astrophysics (J. Grindlay)
- 1993 Invited Lecturer, 1st Indo-US Astronomy Workshop, IUCAA, Pune, India.
- 1995 “*Universe: The Infinite Frontier*”. (KOCE-TV, Coast Telecourses) Program 16 ‘Peculiar Galaxies,’ Interviewed Speaker (Incl. opening and closing remarks). [*an educational TV course in astronomy for two- and four-year colleges].
- 2001 “*Live from a Black Hole*”, Passport to Knowledge (Geofrey Haines-Stiles, producer) Interviewed Speaker, on-line scientist answering email questions from students.
- 2003,2004 Tufts University ‘Space Science’/Chandra Guest Speaker (filmed in 2004)
- 2005 WUML (NPR U. Mass Lowell) Guest on “*Sunrise Show*”, monthly ‘*Eyes on the Cosmos*’ feature, talking about ‘*Chandra*’
- 2006 Lecturer, INAF graduate course on “*Galaxy Dynamics and Active Galactic Nuclei*”, 7-12 May, Bertinoro, Italy.
- 2010 MIT course 16.89 (Masters): “*Graduate Space Systems Engineering Design*”. Co-taught.
- 2010 MIT course 6.S26 (undergraduate): “*Modern Space Science and Engineering*”, Guest Lecturer

7d. Writing

- 1997-2005 Editor, Institute of Physics (IoP) Graduate Series in Astronomy

Book Chapters

- 2002 *Quasars* (M. Elvis) Chapter 23 in “*The Century of Space Science*” [Kluwer] eds. M. Huber, J. Geiss, and J. Bleecker, ISBN 0-7923-7196-8, pp. 529-548
- 2002 *X-ray Astronomy* (L. Golub and M. Elvis) in ‘*Encyclopedia of Optics*’, eds. , [Dekker].
- 2004 *A Panchromatic View of AGN* (G. Risaliti and M. Elvis) in “*Supermassive Black Holes in the Distant Universe*”, ed. A.J. Barger.

7e. Local Committees

- 1983-1984 Member, CfA Submillimeter Telescope Committee.
- 1990-1991 Member, Center for Astrophysics Post-doctoral Fellowship Selection Committee.
- 1992-1993 Member, Committee on Academic Studies, Harvard Univ. Dept. of Astronomy
- 2000 Member, Compact Objects Subcommittee, CfA Long Range Planning Committee
- 2004-2006 Member, SAO Council
- 2005-2006 Member, CfA WWW Committee

2005-2007 Member, CfA Web Advisory Committee
2006-2007 CfA Web Design and Science Oversight committees (new CfA Web site design)

8. Professional Activities (Programmatic):

8a. Mission Planning

Einstein (1980-1981): Investigated observing efficiency; rebuilt (with C. Briggs, programmer) planning software for utility including changing observing constraints; initiated semi-automated scheduling.

8b. Production Processing

Einstein (1981-1985): (with G. Fabbiano) Initiated standard procedure for processing, software problem cycle, inventory control; supervised team of ~12 data processing aides including personnel actions, hirings and dismissals.

8c. Catalog Production

Einstein HRI (1990): Created source catalog in ~ 3 months, including visual check of all sources; *Einstein* IPC Slew Survey (1988-1991): created concept (with G. Fabbiano), demonstrated feasibility of gyro aspect solution; created Slew Survey with staff of one (D. Plummer); checked reliability; identified sources (with J. Schachter) published on paper and CD-ROM.

8d. Contract Renewal

Einstein (1984): Wrote five year *Einstein* (HEAO-2) contract proposal (with G. Fabbiano) for 1984-1989, successfully extending the program life with level funding and leading to the creation of innovative products.

8e. User Support

Einstein (198 -198): Created and edited "HEAO Newsletter" (with G. Fabbiano); organized (with G. Fabbiano) 'Einstein to AXAF' Conference.

Chandra: Organized 'Rates, Codes, and Astrophysics' Workshop.

Series editor ASC User Guides.

CIAO Web site co-designer.

8f. Software for Astronomy Data Analysis

Einstein (1980,1986): Wrote parts of IPC processing software; chose IRAF for PROS development.

Chandra (1993-): ASC group leader of 10 member team responsible for all standard processing (including aspect solution) and Scientific data analysis resulting in the 'CIAO' data analysis package.

Devised solutions for problems of joint spatial/spectral analysis and generalized these to arbitrary dimensions, and to 'stacks' of data by means of an object oriented 'data model'. Generalized data altering, modeling and fitting are supported by this data model. Resulting system builds on IRAF and FTOOLS, is back compatible with them, but is much more powerful. Allows user to concentrate on scientific tasks and algorithms and minimizes 'black box' impenetrability of system.

9. Grants Held:

1984-1987	P.I. Guest Observer, IUE.
1985-1986	P.I. Guest Investigator, IRAS
1985-1986	P.I. Guest Observer, EXOSAT
1986-1987	P.I. Guest Observer, Kuiper Airborne Observatory (KAO).
1987-1990	P.I., NASA ADP Program: “A Synoptic Study of Quasar Continua”. (\$0.3M, 3 years)
1987-1989	P.I., S.I. International Exchange Program, “CCD Studies of AGN” with Tata Institute, Bombay, India.
1988-1990	Co-I., S.I. Scholarly Studies, “Observations of Galaxies with an Infrared Camera”
1988-1995	Co-I., IUE.
1989-1991	P.I., NASA ADP Program: “The Einstein All-Sky Slew Survey: Complete Catalog of Multi-wavelength Source Identifications”
1992	Co-I., Ginga Visiting Investigator Program
1990-1996	P.I. ROSAT Guest Observer Programs (AO1, AO2, AO3, AO4, AO5, AO6)
1990-1997	P.I. NASA Long Term Space Astrophysics Research Program: “The Evolution of the Quasar Continuum.” (\$1.2M, 5 years)
1992-1994	Co-I., NASA Innovative Research: “Numerical Investigations of Four Reflection Grazing Incidence Optics for X-ray Astronomy”
1992-1997	Co-I., NASA ADP-ISO Key Project: “Exploring the Full Range of Quasar/AGN Properties”
1992-1996	Co-I., Compton GRO Guest Observer (Cycle 2, Cycle 3, Cycle 4, Cycle 5)
1993-1996	P.I., ASCA Guest Observer Program (AO1, AO2, AO3)
1995-1997	P.I., NASA ADP: “X-ray Spectra of Quasars from the ROSAT Public Archive” (\$0.12M, 2 years)
1995	P.I., XTE Guest Observer Program (AO1)
1996-1998	P.I., NASA ADP: “LINERS and Low luminosity AGN in the ROSAT database” (\$0.1M, 2 years)
1997-	XMM Survey Science Center Activities
2000	P.I., NASA ADP: “Seeing Red & Shooting Blanks”
2000	P.I., NASA XMM Cycle 1: “The X-ray Baldwin Effect: Fe-K & Compton Humps as Ionized Disk Diagnostics”
2000	P.I., NASA Chandra Cycle 1: “Bright ‘Blank Field’ X-ray Sources”
2000	P.I., NASA Chandra Cycle 2: “Using High z Clusters as Lenses for Very Faint Source Studies with Chandra”.
2001	Co-I, NASA Chandra Cycle 3
2002	Co-I, NASA Chandra Cycle 4 Co-I Chandra Cycle 5
2003	P.I., Rossi XTE Cycle 8 “Naked Type 2 AGN”
2003	Co-I, XMM-Newton Cycle 2
2004	P.I., Spitzer GO1
2004	Co-I Spitzer GO1
2004	Co-I XMM-Newton Cycle 3

- 2006 P.I. Chandra Cycle 8 “*The Chandra COSMOS Survey*” (Large Program, 1.8Msec, \$0.45M)
- 2007 P.I. Suzaku, Cycle 2 “*NGC5548 Monitoring: Key to AGN Structure and Cosmic Feedback*” (Long Program, 240ksec, \$59k)
- 2007 P.I.: RXTE, “*Unveiling Events in Type 2 AGN: Unification and the Origin of Obscuration*” (\$32k)
- 2008 P.I.: Suzaku, Cycle 3 “*NGC3227 Monitoring: Key to AGN Structure and Cosmic Feedback*” (Long Program, 350ksec, \$44k)
- 2008 P.I.: Chandra, Cycle 10 “*A Coordinated Chandra, Suzaku, HST Campaign for NGC3227*” (200ksec, \$116k)
- 2009 Co-I (PI: L. Brenneman): Suzaku, Cycle 5 “*A Long Look at NGC1365: Disk Tomography, Reverberation Mapping and High Energy Excess*” (Long Program: 450ksec)
- 2010 P.I.: Smithsonian Endowment “*Quasars in the COSMOS Field*” (\$33.5k)
- 2010 P.I.: Smithsonian Scholarly Studies “*Black Hole Accretion in the COSMOS: UV imaging with XMM-Newton*” (\$66.9k)
- 2010 P.I.: Smithsonian Atherton Seidell Grant: *Access to Asteroids: NEOview, a web-based Tool to Interrogate the Scattered Near Earth Asteroid Literature.* (\$70k).

10. General Fields of Investigation:

- Extragalactic X-ray astronomy.
- Multi-wavelength Astrophysics
X-ray, UV, optical, IR (ground and space-based), mm and radio.
- X-ray Surveys:
Ariel V Sky Survey; *Einstein* Slew Survey
XMM-SDSS Quasar Sample
COSMOS Survey
- Quasars and Active Galaxies:
Structure of Quasars: unifying the diverse classifications of AGN
Quasar Atmospheres: models for the emission line/absorption regions.
Form and evolution of continuum emission; accretion disk models
Searching for extreme quasars
Feedback: Interaction of nucleus, host galaxy and intergalactic medium.
Origin of the quasar luminosity function
- Warm-Hot Intergalactic Medium
- Near Earth Objects

BIBLIOGRAPHY

Publications in Refereed Journals

- 1 1975 An Extended Observation of Cen X-3 with the Ariel-5 Sky Survey (K.A. Pounds, B.A. Cooke, M.J. Ricketts, J. Turner, and M. Elvis) *Monthly Notices of the Royal Astronomical Society*, volume **172**, pages 473-481.
- 2 1975 Ariel V Sky Survey: Identification of Abell 478 with the X-ray Source 3U0405+10 (M. Elvis, B.A. Cooke, K.A. Pounds, and M.J.L. Turner) *Nature*, volume **257**, pages 33-34.
- 3 1975 Discovery of a Powerful Transient X-ray Source (A0620-00) with the Ariel Sky Survey Experiment (M. Elvis, C.G. Page, K.A. Pounds, M.J. Ricketts, and M.J.L. Turner) *Nature*, volume **257**, pages 656-657.
- 4 1976 Evidence for a 17-d Periodicity from Cyg X-3 (S.S. Holt, E.A. Boldt, P.J. Serlemitsos, L.J. Kaluzienski, S.H. Pravdo, A. Peacock, M. Elvis, M.G. Watson, and K.A. Pounds) *Nature*, volume **260**, pages 592-594.
- 5 1976 Identification of Abell Cluster 754 with the X-ray Source 3U0901-09 by Ariel V (J.P. Pye, B.A. Cooke, and M. Elvis) *Nature*, volume **262**, page 195.
- 6 1976 NGC3783: A Possible X-ray Emitting Seyfert Galaxy (B.A. Cooke, M. Elvis, T. Maccacaro, M.J. Ward, R.A.E. Fosbury, and M.V. Penston) *Monthly Notices of the Royal Astronomical Society*, volume **177**, Short Communication, pages 121P-125P.
- 7 1976 Ariel V Sky Survey: Long-term Monitoring of the X-ray Emission from the Coma Cluster and NGC4151 (M. Elvis) *Monthly Notices of the Royal Astronomical Society*, volume **177**, Short Communication, pages 7P-12P.
- 8 1977 MCG8-11-11 - A Seyfert Galaxy in an X-ray Source Error Box (M.J. Ward, A.S. Wilson, M.J. Disney, M. Elvis, and T. Maccacaro) *Astronomy and Astrophysics*, volume **59**, pages L19-L21.
- 9 1977 Ariel V Sky Survey: X-ray Variability of NGC5128 (A. Lawrence, J.P. Pye, and M. Elvis) *Monthly Notices of the Royal Astronomical Society*, volume **181**, Short Communication, pages 93P-99P.
- 10 1977 Ariel V (SSI) Catalogue of High Galactic Latitude ($|b| > 10^\circ$) X-ray Sources (B.A. Cooke, M.J. Ricketts, T. Maccacaro, J.P. Pye, M. Elvis, M.G. Watson, R.E. Griffiths, K.A. Pounds, I. McHardy, D. Maccagni, F.D. Seward, C.G. Page, and M.J.L. Turner) *Monthly Notices of the Royal Astronomical Society*, volume **182**, pages 489-515.

- 11 1978 Seyfert Galaxies as X-ray Sources (M. Elvis, T. Maccacaro, A.S. Wilson, M.J. Ward, M.V. Penston, R.A.E. Fosbury, and G.C. Perola) *Monthly Notices of the Royal Astronomical Society*, volume **183**, pages 129-157.
- 12 1978 Optical identifications of Extragalactic X-ray Sources (M.J. Ward, A.S. Wilson, M.V. Penston, M. Elvis, T. Maccacaro, and K.P. Tritton) *The Astrophysical Journal*, volume **223**, pages 788-797.
- 13 1979 On the Identification of the High Latitude X-ray Source 2A1219+305 (A.S. Wilson, M.J. Ward, D.J. Axon, M. Elvis, and E.J.A. Meurs) *Monthly Notices of the Royal Astronomical Society*, volume **187**, pages 109-115.
- 14 1979 X-ray Studies of Quasars with the Einstein Observatory (H. Tananbaum, Y. Avni, G. Branduardi, M. Elvis, G. Fabbiano, E. Feigelson, R. Giacconi, J.P. Henry, J.P. Pye, A. Soltan, and G. Zamorani) *The Astrophysical Journal (Letters)*, volume **234**, pages L9-L13.
- 15 1979 Discovery of an X-ray Star Association in VI Cygni (CYG OB2) (F.R. Harnden, Jr., G. Branduardi, M. Elvis, P. Gorenstein, J. Grindlay, J.P. Pye, R. Rosner, K. Topka, and G.S. Vaiana) *The Astrophysical Journal (Letters)*, volume **234**, pages L51-L54.
- 16 1981 Two Optically Dull Galaxies with Strong Nuclear X-ray Sources (M. Elvis, E.J. Schreier, J. Tonry, M. Davis, and J.P. Huchra) *The Astrophysical Journal*, volume **246**, pages 20-27.
- 17 1982 X-ray Observations with the Einstein Observatory of Emission Line Galaxies (T. Maccacaro, G.C. Perola, and M. Elvis) *The Astrophysical Journal*, volume **257**, 47.
- 18 1982 Radio Jets in NGC4151 (K.J. Johnston, M. Elvis, D. Kjer, and B.S.P. Shen) *The Astrophysical Journal (Letters)*, volume **262**, 61.
- 19 1982 Obscuration and the Various Kinds of Seyfert Galaxies (A. Lawrence and M. Elvis) *The Astrophysical Journal*, volume **256**, 410.
- 20 1982 Detailed Observations of NGC4151 with IUE. Paper 2. Variability of the continuum from 1978 February to 1980 May including X-ray and Optical Observations (G.C. Perola, A. Boksenberg, G.E. Bromage, J. Clavel, M. Elvis, A. Elvius, P.M. Gondhalekar, J. Lind, C. Lloyd, M.V. Penston, M. Pettini, M.A.J. Snijders, E.G. Tanzi, M. Tarenghi, M.H. Ulrich, and R.S. Warwick) *Monthly Notices of the Royal Astronomical Society*, volume **200**, 293.
- 21 1982 The Nuclear X-ray Source in M81 (M. Elvis and L. Van Speybroeck) *The Astrophysical Journal (Letters)*, volume **257**, L51.

- 22 1983 Optical Identification of 2A1704+241 with the M-Giant Star HD154791 (M. Garcia, S.L. Baliunas, R. Doxsey, M. Elvis, G. Fabbiano, G. Koenigsberger, J. Patterson, D. Schwartz, J. Swank, and M. Watson) *The Astrophysical Journal*, volume **267**, 291.
- 23 1983 Extended Soft X-ray Emission from NGC 4151 (M. Elvis, U. Briel, and J.P. Henry) *The Astrophysical Journal*, volume **268**, 105.
- 24 1984 An X-ray Survey of a Complete Sample of 3CR Radio Galaxies with the Einstein Observatory (G. Fabbiano, L. Miller, G. Trinchieri, M. Longair, and M. Elvis) *The Astrophysical Journal*, volume **277**, 115.
- 25 1984 JHKL Photometry of the Nuclei of Normal Spiral Galaxies (S.P. Willner, M. Ward, A. Longmore, A. Lawrence, G. Fabbiano, and M. Elvis) Publications of the Astronomical Society of the Pacific, volume 96, 143.
- 26 1984 X-ray and UV Spectra of Two Radio Bright Quasars (M. Elvis and G. Fabbiano) *The Astrophysical Journal*, volume 280, 91.
- 27 1984 1-20 μm Infrared Photometry of 3CR Radio Galaxies (M. Elvis, S.P. Willner, G. Fabbiano, N.P. Carleton, A. Lawrence, and M. Ward) *The Astrophysical Journal*, volume 280, 574.
- 28 1984 Very Low Luminosity Active Galaxies and the X-ray Background (M. Elvis, A. Soltan, and W. Keel) *The Astrophysical Journal*, volume 283, 479.
- 29 1985 1-20 μm Observations of Low Luminosity Active Nuclei (A. Lawrence, M.J. Ward, M. Elvis, G. Fabbiano, S.P. Willner, N.P. Carleton, and A. Longmore) *The Astrophysical Journal*, volume 291, 117.
- 30 1985 The Diversity of Soft X-ray Spectra in Quasars (M. Elvis, B.J. Wilkes, and H. Tananbaum) *The Astrophysical Journal*, volume **292**, 357.
- 31 1985 The Gaseous Environments of Double Radio Galaxies (L. Miller, M.S. Longair, G. Fabbiano, G. Trinchieri, and M. Elvis), *Monthly Notices of the Royal Astronomical Society*, volume **215**, 799.
- 32 1985 Infrared Observations of LINER Galactic Nuclei (S.P. Willner, M. Elvis, G. Fabbiano, A. Lawrence, and M.J. Ward), *The Astrophysical Journal*, volume **299**, 443.
- 33 1985 An X-ray, Optical and Radio Study of PKS 0745-191: A Massive Cooling Flow (A.C. Fabian, K.A. Arnaud, P.E.J. Nulsen, M.G. Watson, G.C. Stewart, I. McHardy, A. Smith, B. Cooke, M. Elvis and R.F. Mushotzky) *Monthly Notices of the Royal Astronomical Society*, volume **216**, 923.

- 34 1985 Continuous Rapid Variability and Spectral Changes in NGC 4051 (A. Lawrence, M.G. Watson, K.A. Pounds and M. Elvis) *Monthly Notices of the Royal Astronomical Society*, volume **217**, 685.
- 35 1986 The Highly Obscured Nucleus of 3C219 (G. Fabbiano, S.P. Willner, N.P. Carleton and M. Elvis), *The Astrophysical Journal (Letters)*, volume **304**, L37.
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