

BIBLIOGRAPHY: *Saeqa Dil Vrtilek*

Publications in refereed journals:

- 2022 “A Comparative Study of Machine-learning Methods for X-ray Binary Classification” (de Beurs, Islam, Gopalan, & Vrtilek), *ApJ*, 933, 116.
- 2021 “An XMM-Newton Early-type Galaxy Atlas” (Islam et al.), *ApJS*, 256, 221.
- 2021 “Comparing X-ray color selection in separating X-ray binary classes using color-color-intensity diagrams” (Islam, Vrtilek, Boroson et al.), *NewA*, 8501514.
- 2021 “Radio Spectral Index Analysis of Southern Hemisphere Symbiotic Stars” (Dickey, Weston, Sokoloski, Vrtilek, & McCollough), *ApJ*, 911, 30.
- 2021 “A Broadband X-Ray View of the Precessing Accretion Disk and Pre-eclipse Dip in the Pulsar Her X-1 with NuSTAR and XMM-Newton” (Brumback et al.) *ApJ*, 909, 186.
- 2020 “Temperature profiles of hot gas in early-type galaxies” *MNRAS*, 492, 2095.
- 2019 “Chandra Early-type Galaxy Atlas” (Kim et al.) *ApJS*, 241, 36.
- 2018 “Phase-resolved spectroscopy of the low-mass X-ray binary V801 Ara” (Brauer, Vrtilek, & Peris) *MNRAS*, 478, 4894.
- 2018 “Disturbed Fossil Group Galaxy NGC 1132” (Kim et al.) *ApJ*, 853, 129.
- 2017 Constraining the Physical State of the Hot Gas Halos in NGC 4649 and NGC 5846” (Alexander et al) *ApJ*, 844, 5.
- 2016 “X-ray Spectral Analysis of the Steady States of GRS1915+105” (Peris et al), 2016, *ApJ*, 822, 60.
- 2015 “Classifying X-ray Binaries: A Bayesian Approach” (Gopalan, Vrtilek, & Boroson), *ApJ*, 809, 40.
- 2015 “Interpreting the X-ray state transitions of Cygnus X-1” (Cechura, Vrtilek, & Hadrava), *MNRAS*, 450, 2410.
- 2015 Tomography of X-ray Nova Muscae 1991: evidence for ongoing mass transfer and stream-disc overflow.” (Peris, Vrtilek, et al) *MNRAS*, 449, 1584.
- 2014 FUSE Observations of a Full Orbit of Scorpius X-1. (B. Boroson, S.D. Vrtilek, J. Raymond), *ApJ*, 793, 59.
- 2013 Variability of the accretion disk of V926 Sco inferred from tomographic analysis. (S.D. Connolly, C.S. Peris, & S.D. Vrtilek), *Astrophysical Journal (ApJ)*, 777, 171.
- 2013 Model independent means of categorizing X-ray binaries -I. Colour-Colour-intensity diagrams (S.D. Vrtilek, & B.S. Boroson), *Monthly Notices of the Royal Astronomical Society (MNRAS)*, 428, 3693.
- 2012 A tomographic study of V691 CrA (X1822-37) (C.S. Peris, & S.D. Vrtilek), *MNRAS*, 427,1043.
- 2010 Suzaku X-ray Spectra and Pulse Profile Variations during the Superorbital Cycle of LMC X-4 (L. Hung, R. Hickox, B.S. Boroson, & S.D. Vrtilek), *ApJ*, 720, 1202
- 2010 X-ray Variations at the Orbital Period from Cygnus X-1 in the High/Soft State (B.S. Boroson, & S.D. Vrtilek), *ApJ*, 710, 197.
- 2009 Doppler and Modulation Tomography of XTE J1118+480 in Quiescence (D.E. Calvelo, S.D. Vrtilek, J. Neilsen, M. Torres, D. Steeghs, J.I.G. Hernandez, & A.V. Filippenko), *MNRAS*, 399, 539.
- 2009 Spectroscopic Signatures of the Superorbital Period in the Neutron Star Binary LMC X-4 (J. Neilsen, J.C. Lee, M.A. Nowak, K. Dennerl, S.D. Vrtilek) *ApJ*, 696, 182.

- 2008 Ultraviolet Observations of the X-ray Photoionized Wind of Cygnus X-1 during X-ray Soft/High State (S.D. Vrtilek, B. Boroson, A. Hunacek, D. Geis, & C.T. Bolton), *ApJ*, 678, 1248.
- 2008 The Eccentric Accretion Disc of the Black Hole A0620-00 (J. Neilsen, D. Steeghs, & S.D. Vrtilek), *MNRAS*, 384, 849.
- 2007 FUSE Observations of a Full Orbit of Hercules X-1: Signatures of Disk, Star, and Wind (B.S. Boroson, S.D. Vrtilek, J.C. Raymond, & M. Still), *ApJ*, 667, 1087.
- 2005 Pulse-phase spectroscopy of SMC X1 with Chandra and XMM-Newton: reprocessing by a precessing disk? (R.C. Hickox, & S.D. Vrtilek), *ApJ*, 637, 1148.
- 2005 Rotational modulation of X-ray emission in Orion Nebula young stars. (E. Flaccomi, G. Micela, S. Sciortino, E.D. Feigelson, W. Herbst, F. Favata, F.R. Harnden Jr., & S.D. Vrtilek), *ApJS*, 160, 450.
- 2005 Photoionized Lines in the X-ray Spectra of SMC X-1. (S.D. Vrtilek, J.C. Raymond, B.S. Boroson, & R. McCray), *ApJ*, 626, 307.
- 2004 Phase Variation in the Pulse Profile of SMC X-1. (J. Neilsen, R.C. Hickox, & S.D. Vrtilek), *ApJ*, 616L, 135.
- 2004 Doppler Tomography of X-ray Binaries. (S.D. Vrtilek, H. Quaintrell, B. Boroson, & M. Shields), *Astronomische Nachrichten (AN)*, 325, 209.
- 2003 Simultaneous ASCA and HST/GHRS Observations of Cygnus X-2/V1341 Cygni. (S.D. Vrtilek, J.C. Raymond, B. Boroson, R. McCray, A. Smale, T. Kallman, & F. Nagase), *Publications of the Astronomical Society for the Pacific (PASP)*, 115, 1124.
- 2003 Nebular vs. Stellar Wind Abundances in NGC 654. (H. Maness & S. D. Vrtilek), *PASP*, 115, 1002.
- 2003 Chandra Grating Spectroscopy of the X-Ray Binary 4U 1700-37 in a Flaring State. (Bram Boroson, Saeqa Dil Vrtilek, Timothy Kallman, and Michael Corcoran), *ApJ*, 592, 516.
- 2003 A Compact X-Ray Source and X-Ray Jet within the Planetary Nebula Menzel 3. (J. H. Kastner, B. Balick, E. G. Blackman, A. Frank, N. Soker, S. D. Vrtilek, and J. Li), *ApJ Letters*, 591, 37.
- 2003 Abundance Anomalies in the X-Ray Spectra of the Planetary Nebulae NGC 7027 and BD +30-Degree 3639. (H. L. Maness, S. D. Vrtilek, J.H. Kastner, & N. Soker), *ApJ*, 589, 439.
- 2002 On the Asymmetries of Extended X-Ray Emission from Planetary Nebula. (J. Kastner, J. Li, S.D. Vrtilek, I. Gatley, K.M. Merrill, & N. Soker), *ApJ*, 581, 1225.
- 2002 The UV Light Curve of LMC X-4: X-ray Heating of the O Star and Accretion Disk. (M.E. Preciado, B. Boroson, & S.D. Vrtilek), *PASP*, 114, 340.
- 2001 Simultaneous Chandra/HST Observations of SMC X-1 (S. D. Vrtilek, J.C. Raymond, B. Boroson, T. Kallman, H. Quaintrell, & R. McCray), *ApJ*, 563, L139.
- 2001 Hot Outflowing Gas from the X-ray Binary Hercules X-1 (B. Boroson, T. Kallman, S. D. Vrtilek), *ApJ*, 562, 925.
- 2001 Spectral signatures of reprocessing on Hercules X-1/HZ Herculis (H. Quaintrell, M.D. Still, S.D. Vrtilek, B.S. Boroson, & P. Roche), *AIP Conference Proceedings*, 599, 878.
- 2001 Keck II spectroscopy of mHz quasi-periodic oscillations in Hercules X-1 (K. O'brien, K. Horne, B. Boroson, M. Still, R. Gomer, J.B. Oke, P. Boyd, & S.D. Vrtilek), *MNRAS*, 326, 1067.
- 2001 Complete and Simultaneous Spectral Observations of the Black-Hole X-ray Nova XTE

- J1118+480 (McClintock *et al.*), ApJ, 555, 477.
- 2001 Atmospheric reflection during an anomalous low-state of Hercules X-1 (M. Still *et al.*), ApJ, 554, 352.
- 2001 RXTE observations of Hercules X-1 during the 1998 July Short-high State. (M. Still *et al.*), ApJ, 553, 776.
- 2001 Discovery of Extended X-Ray Emission from the Planetary Nebula NGC 7027 by the Chandra X-Ray Observatory (J.H. Kastner, S.D. Vrtilik, & N. Soker), ApJL, 550, 189.
- 2001 Structure of the X-Ray Emission from the Jet of 3C 273 (H.L. Marshall *et al.*) ApJ, 549L, 167.
- 2001 Multiwavelength Studies of Hercules X-1 During a Short-high and an Anomalous Low State: On again, Off again (S.D. Vrtilik, H. Quaintrell, B. Boroson, M. Still, H. Fiedler, K. O'Brien, & R. McCray), ApJ, 549, 522.
- 2000 Chandra X-ray Observatory Detection of extended X-ray emission from the Planetary Nebula Bd +30 3639 (Kastner, J., Soker, N., Vrtilik, S.D., & Knill-Dgani, R.), ApJ, 545L, 57.
- 2000 Discovery of MHz UV Quasiperiodic Oscillations in Hercules X-1 (B. Boroson, K. O'Brien, K. Horne, T. Kallman, M. Still, P.T. Boyd, H. Quaintrell, & S.D. Vrtilik), ApJ, 545, 399.
- 2000 Hercules X-1: Empirical Models of UV Emission Lines (B. Boroson, T. Kallman, S.D. Vrtilik, J.C. Jaymond, Still, M., Bautista, M., & H. Quaintrell), ApJ, 529, 414.
- 1999 Models of X-ray Photoionization Effects in LMC X-4: Slices of a Stellar Wind. (B. Boroson, T. Kallman, R. McCray, S.D. Vrtilik, & J.C. Raymond) ApJ, 519, 191.
- 1998 Simultaneous HST/RXTE Observations of Sco X-1 (T. Kallman, B. Boroson, & S.D. Vrtilik), ApJ, 502, 441.
- 1997 Hopkins Ultraviolet Telescope Observations of Her X-1 (B. Boroson, W.P. Blair, A.F. Davidson, K.S. Long, S.D. Vrtilik, J.C. Raymond, & R. McCray), ApJ, 491, 903.
- 1997 Simultaneous HST/ASCA Observations of LMC X-4: X-ray Ionization Effects on a Stellar Wind (S.D. Vrtilik, B. Boroson, F.H. Cheng, R. McCray, & F. Nagase), ApJ, 490, 377.
- 1997 HST synthetic spectral analysis of U Gem in early and late quiescence: A heated white dwarf and accretion belt? (F.H.Cheng, K. Horne, E. Sion, I. Hubeny, & S.D. Vrtilik), Astronomical Journal (AJ), 114, 1165.
- 1996 Pulsations and Line Profile Changes in the Ultraviolet Spectrum of Hercules X-1: Results from a Multiwavelength Campaign (B. Boroson, S.D. Vrtilik, R. McCray, T. Kallman, & F. Nagase), ApJ, 473 1079.
- 1996 ROSAT PSPC Observations of the Intermediate Polar TV Columbae (S.D. Vrtilik, A. Silber, F.A. Primini, & J.C. Raymond), ApJ, 465, 951.
- 1996 The UV/Optical Continuum of Her X-1/HZ Her (S.D. Vrtilik & F.H. Cheng), ApJ, 465, 915.
- 1995 An Archival Study of *Hubble Space Telescope* Observations of Hercules X-1/HZ Herculis (F.H. Cheng, S.D. Vrtilik, & J.C. Raymond), ApJ, 452, 825.
- 1995 Phase-Resolved IUE and Optical Observations of the Polar BY Camelopardalis (D. Zucker, J.C. Raymond, A. Silber, P. Mason, S. Curiel, S.D. Vrtilik, & E. Schlegel), ApJ, 449, 310.
- 1994 Multiwavelength Observations of Hercules X-1/HZ Herculis (S.D. Vrtilik *et al.*), ApJL, 436, L9.
- 1994 Concurrent X-ray and Optical Observations of two Dwarf Novae in Outburst (A. Silber, S.D. Vrtilik & J.C. Raymond), ApJ, 425, 829.

- 1994 ROSAT Observations of Cataclysmic Variables: A Search for the Boundary Layer Emission (S.D. Vrtilek, A. Silber, J.C. Raymond, & J. Patterson), *ApJ*, 425, 787.
- 1993 A Catalog of Intracluster Gas Temperatures (L.P. David, A. Slyz, C. Jones, W. Forman, S.D. Vrtilek, & K. Arnaud), *ApJ*, 412, 479.
- 1993 Effects of Inclination Angle on the Spectra of X-ray Binaries (S.D. Vrtilek, N. Soker, and J.C. Raymond), *ApJ*, 404, 696.
- 1991 The *Einstein* OGS Survey of Galactic Binary X-ray Sources (S.D. Vrtilek, J.E. McClintock, F.D. Seward, S.M. Kahn, and B.J. Wargelin), *ApJS*, 76, 1127.
- 1991 Observations of Scorpius X-1 with IUE: Ultraviolet Results from a Multiwavelength Campaign (S.D. Vrtilek, W. Penninx, J.C. Raymond, F. Verbunt, P. Hertz, K. Wood, W.H.G. Lewin, and K. Mitsuda), *ApJ*, 376, 278.
- 1991 The UV Spectrum of Sco X-1 (T.R. Kallman, J.C. Raymond, and S.D. Vrtilek), *ApJ*, 370, 717.
- 1990 Observations of Cygnus X-2 with IUE: Ultraviolet Results from a Multiwavelength Campaign (S.D. Vrtilek, J.C. Raymond, M.R. Garcia, F. Verbunt, G. Hasinger, and M. Kurster), *Astronomy & Astrophysics (A&A)*, 235, 162.
- 1989 Soft X-ray Emission Lines from Low Mass X-ray Binaries. I. Collision Dominated Models (T.R. Kallman, S.D. Vrtilek, and S. Kahn), *ApJ*, 345, 498.
- 1988 Long-term Temporal Variability of Cygnus X-2 (S.D. Vrtilek, J.H. Swank, R.L. Kelley, and S.M. Kahn), *ApJ*, 329, 276.
- 1988 X-ray Spectral Models of Galactic Bulge Sources: The Emission Lines Factor (S.D. Vrtilek, J.H. Swank, and T.R. Kallman), *ApJ*, 326, 186.
- 1986 X-ray Emission Lines from Three Galactic Bulge Sources (S.D. Vrtilek, D.J. Helfand, J.P. Halpern, S.M. Kahn, and F.D. Seward), *ApJ*, 308, 644.
- 1986 Multiwavelength Studies of the Long Period Am Her System E1003+225 - I. The Soft X-ray Lightcurve and Overall Energy Spectrum (J.P. Osborne, J.-M. Bonnet-Bidaud, S. Bowyer, P.A. Charles, L. Chiappetti, J.T. Clarke, J.P. Henry, G.J. Hill, S. Kahn, L. Maraschi, K. Mukai, A. Treves, and S. Vrtilek), *MNRAS*, 221, 823.
- 1986 Spectral Variability of Cygnus X-2: Structure in the Circumsource Material (S.D. Vrtilek, S.M. Kahn, J.E. Grindlay, D.J. Helfand, and F.D. Seward), *ApJ*, 307, 698.
- 1985 Temporal and Spectral Study of a Newly-Discovered Spiking Phenomenon in the Pre-Eclipse and Anomalous Dip States of Hercules X-1 (S.D. Vrtilek and J.P. Halpern), *ApJ*, 196, 606.
- 1985 X-ray, Optical, and Ultraviolet Observations of the Am Her System E1003+225 (K. Mukai, J. Bonnet-Bidaud, S. Bowyer, P. Charles, L. Chiappetti, J. Clarke, R. Corbet, J. Henry, G. Hill, S. Kahn, L. Maraschi, J. Osborne, A. Treves, M. van der Klis, J. van Paradijs, and S.D. Vrtilek), *SpScRev*, 40, 151.
- 1983 Constraints on Gamma-Ray Bursters from Soft X-ray Transients (D.J. Helfand and S.D. Vrtilek), *Nature*, 304, 41.
- 1981 HEAO-1 Observations of High-Energy X-rays from the Seyfert 1 Galaxy Mkn 509 (S. Dil (now S.D. Vrtilek), F.A. Primini, E. Bazinska, M. Bautz, S.K. Howe, F. Lang, A.M. Levine, W.H.G. Lewin, D.M. Worrall, P.L. Nolan, and J.L. Matteson), *ApJ*, 250, 513.

Other Publications:

- 1981 An Evaluation and Upgrading of the SAO Prediction Technique (J. Lattimer, S.D. Vrtilek,

- and D. Hills), in *Proceedings of the Fourth International Workshop on Laser Ranging Instrumentation*.
- 1984 Objective Grating Soft X-ray Spectroscopy of Compact Binary X-ray Sources (S.M. Kahn, S.D. Vrtilek, L. Chiappetti, and N.E. White), in *Proceedings of the Eighth International Colloquium on Ultraviolet and X-ray Spectroscopy of Astrophysical and Laboratory Plasmas*, IAU Colloquium No. 86, 80.
- 1989 IUE Observations of Cyg X-2 and Sco X-1 (S.D. Vrtilek, W. Penninx, J.C. Raymond, and F. Verbunt), in *Proceedings of the 23rd ESLAB Symposium on Two Topics in X-ray Astronomy*, ESA SP-296, 671.
- 1992 Soft X-ray Emission from Boundary Layers in Cataclysmic Variables (S.D. Vrtilek), in *Cataclysmic Variable Stars* ASP Conference Series 29, ed. N. Vogt, p. 384,
- 1992 Am Herculis, (P.A. Mason, G. Chanmugan, J. Raymond, S. Vrtilek, N.V. Borisov, N.M. Shakhovskiy, I.L. Andronov, & C. Mauche) IAU Circular 5545. June 15.
- 1994 A Search for Boundary Layer Emission from Cataclysmic Variables using the ROSAT PSPC (S.D. Vrtilek, A. Silber, & J.C. Raymond) in *Interacting Binaries*, ed. A. Shafter, ASP Conference Series, 56, 324.
- 1994 ROSAT Observations of SU UMa and RU Peg in Outburst (A. Silber, S.D. Vrtilek, & J.C. Raymond), in *Interacting Binaries*, ed. A. Shafter, ASP Conference Series, 56, 306.
- 1996 Accretion Disk Dynamics of Hercules X-1 (S.D. Vrtilek & F.H. Cheng), in *Cataclysmic Variables and Related Objects*, eds. A. Evans and J. Wood, Kluwer academic publishers: Dordrecht, pp. 377-380.
- 1996 An Archival Study of HST Observations of Her X-1/HZ Her (F.H. Cheng, S.D. Vrtilek, & J.C. Raymond), in *Cataclysmic Variables and Related Objects*, eds. A. Evans and J. Wood, Kluwer academic publishers: Dordrecht, pp. 381-2.
- 1996 EUV Spectroscopy of Hercules X-1 (S.D. Vrtilek, H. Marshall, & J.C. Raymond) Technical Report, Maryland Univ. College Park, MD.
- 1996 Multiwavelength Studies of Her X-1 (S.D. Vrtilek, J. Truemper, P. Kahabka, W. Voges, K. Dennerl, & P. Serlemitsos) Technical Report, Maryland Univ. College Park, MD.
- 1996 X-ray Binaries: Beyond the Decade of Discovery (S.D. Vrtilek) in *Proceedings of the High Throughput X-ray Spectroscopy Workshop*, Boston, MA 29 Sep - 1 Oct, 1996.
- 1997 HST synthetic spectral analysis of U Gem in early and late quiescence: a heated white dwarf and accretion belt (F.H. Cheng, E.M. Sion, K. Horne, I. Hubeny, M. Huang, & S.D. Vrtilek), in *proceedings of the 10th European Workshop on White Dwarfs*, held in Blanes, Spain, 17-21 June 1996. Eds. J. Isern, M. Hernanz, and E. Gracia-Berro. Publisher: Dordrecht: Kluwer Academic Publishers, 1997, Astrophysics and Space Science Library, Vol. 214, ISBN: 0792345851, p.359
- 1999 HST STIS UV Spectra of Hercules X-1/HZ Herculis (H. Quaintrell, S.D. Vrtilek, M.D. Still, & B. Boroson). In *proceedings of "X-ray Astronomy: Stellar Endpoints, AGN and the Diffuse X-ray Background"*. September 6-10, 1999 - CNR Conference Centre, Bologna, Italy.
- 2000 Hercules X-1 (S.D. Vrtilek) a review article for the *Encyclopedia of Astronomy and Astrophysics* published by the Nature Publishing Group, January 2001.
- 2000 Hercules X-1 (B. Boroson, S.D. Vrtilek, P. Boyd, & A. Levine) IAU Circ. 7522, 2.
- 2001 Spectral signatures of reprocessing on Hercules X-1/HZ Herculis (H. Quaintrell, M.D. Still, S.D. Vrtilek, B.S. Boroson, & P. Roche), AIP Conference Proceedings, 599, 878.

- 2001 Observations of Cen X-3 in an Intermediate Intensity Flaring State (M.D. Audley, F. Nagase, R.L. Kelley, & S.D. Vrtilek) *New Century of X-ray Astronomy*, ASP Conference Proceedings Vol. 251. Edited by H. Inoue and H. Kunieda. ISBN: 1-58381-091-9. San Francisco: Astronomical Society of the Pacific, 2001., p.336
- 2001 The Chandra View of X-ray Binaries (S.D. Vrtilek) in *High Energy Universe at Sharp Focus: Chandra Science ASP Conference Proceedings Vol. 262*. Edited by Eric M. Schlegel and Saeqa D. Vrtilek. ISBN:1-58381-102-8. San Francisco: Astronomical Society of the Pacific, 2002, p. 215.
- 2002 *High Energy Universe at Sharp Focus: Chandra Science*, proceedings of a conference held in St. Paul, MN, 16-18 July 2001. ASP Conference Proceedings Vol. 262. Edited by Eric M. Schlegel and Saeqa D. Vrtilek. ISBN:1-58381-102-8. San Francisco: Astronomical Society of the Pacific, 2002
- 2004 Long-term X-ray Variability and the Importance of the ASM. (S.D. Vrtilek), *X-ray Timing 2003: Rossi and Beyond*. AIP Conference Proceedings, Vol. 714. Eds P. Kaaret, F.K. Lamb, and J.H. Swank. Melville, NY: American Institute of Physics, p.331-336
- 2006 Rotational modulation of X-ray emission in Orion Nebula young stars. (E. Flaccomio, G. Micela, S. Sciortino, E.D. Feigelson, W. Herbst, F. Favata, F.R. Harnden Jr., & S.D. Vrtilek), *Mem SAIS*, 9, 244.
- 2009 Interpreting a Dwarf Nova Eruption as Magnetic Flare Activity (N. Soker, & S.D. Vrtilek), *archiv0904-0681*.

Meeting Abstracts:*Saeqa Dil Vrtilek*

- 1979 HEAO-1 Observations of High Energy X-rays from MKN 509 (S. Dil (now S.D. Vrtilek), F. Primini, P. Byrne, C. Dobson, J. Doty, S. Howe, F. Lang, A. Levine, W.A. Wheaton, W.H.G. Lewin, W.A. Baity, J.L. Matheson, and L.E. Peterson), *BAAS*, 11, 467.
- 1982 Constraints on the Gamma-Ray Burst Population from a Soft X-ray Transient Survey (S.D. Vrtilek and D.J. Helfand), *BAAS*, 14, 867.
- 1983 Einstein OGS/MPC Observations of Cygnus X-2 (S.D. Vrtilek, S.M. Kahn, F.D. Seward, and J.E. Grindlay), *BAAS*, 15, 636.
- 1984 Dramatic Variability in the X-ray Flux of Hercules X-1 Preceding the Binary Eclipse (S.D. Vrtilek, S.M. Kahn, F.D. Seward, and J.E. Grindlay), *BAAS*, 16,
- 1984 X-ray, Optical and Ultraviolet Observations of Am Her Systems E2003+225 and 2a0311-227 (K. Mukai, P.A. Charles, R.H.D. Corbet, L. Chiappetti, J. Osborne, S. Kahn, G.J. Hill, J.P. Henry, L. Maraschi, A. Treves, J. van Paradijs, M. van der Klis, and S.D. Vrtilek), *ESLAB Symposium*, Noordwijk.
- 1984 Hercules X-1/Hz Herculis: Yet Another Periodicity? (S.D. Vrtilek), *BAAS*, 16, 982.
- 1985 High Resolution X-ray Spectroscopy of Three Galactic Bulge Sources (S.D. Vrtilek, G.A. Chanan, D.J. Helfand, S.M. Kahn, and F.D. Seward), *BAAS*, 17, 590.
- 1986 Intensity Dips in Cygnus X-2 (S.D. Vrtilek, J.H. Swank, S.M. Kahn, R.L. Kelley, and J.E. Grindlay), presented at "The Physics of Accretion onto Compact Objects", Tenerife.
- 1986 X-ray Emission Lines from Galactic Bulge Sources (S.D. Vrtilek and S.M. Kahn), presented at "The Physics of Accretion onto Compact Objects", Tenerife.
- 1986 Long-Term Variability of Cygnus X-2 (S.D. Vrtilek, J.H. Swank, and R.L. Kelley), *BAAS*, 18, 919.

- 1987 The Influence of Soft X-ray Emission Lines on the spectra of LMXB's (S.D. Vrtilek), presented at "The Physics of Cataclysmic and X-ray Binaries", Aspen.
- 1987 X-ray and UV Emission Lines from Galactic Bulge Sources (S.D. Vrtilek), presented at workshop on "Multiwavelength Astrophysics", Taos.
- 1987 Survey of Column Densities to Galactic X-ray Sources With the Einstein OGS (S.D. Vrtilek, B.J. Wargelin, J.E. McClintock, S.M. Kahn, and F.D. Seward), BAAS, 19, 1076.
- 1988 IUE observations of Cyg X-2: Some Ultraviolet Results from a Multiwavelength Campaign (S.D. Vrtilek, J.C. Raymond, M.R. Garcia, F. W. Verbunt, G. R. Hasinger), BAAS, 20, 1106.
- 1989 Multiwavelength Observations of X-ray Binaries (S.D. Vrtilek), BAAS, 21, 1096.
- 1990 Pulse-phase Spectroscopy of Iron Line Emission from Her X-1 and Cen X-3 (S.D. Vrtilek, P. Kahabka, W. Voges, J. Trümper, H. Ögelman, J.H. Swank, and A. Tennant), BAAS, 22, 1210.
- 1993 Multiwavelength Observations of Her X-1 (S.D. Vrtilek, P. Charles, E. Hu, P. Kahabka, H. Marshall, T. Mihara, F. Primini, R. Rutten, Y. Soong, J. Stull, & W. Voges). Evolution of X-ray Binaries, College Park, MD, Oct 11-13, 1993.
- 1993 Simultaneous Multiwavelength Observations of Hercules X-1 (S.D. Vrtilek, P. Charles, E. Hu, P. Kahabka, La Dous, C., H. Marshall, T. Mihara, F. Primini, R. Rutten, Y. Soong, J. Stull, J. Truemper, W. Voges, R. Wagner, & R.M. Wilson, BAAS, 25, 1346.
- 1994 Iron L Line from Photoionized Plasmas (T. Kallman, S.M. Kahn, & S.D. Vrtilek) at The Analysis of Emission Lines: Symposium in honor of the 70th birthdays of D. Osterbrock and M.J. Seaton. StScI, May 16-18th, 1994.
- 1994 Multiwavelength Observations of Her X-1: A Simultaneous Look at 4 Decades of the Spectrum (S.D. Vrtilek, P.A. Charles, K.O. Dennerl, E. Hu, P. Kahabka, C. la Dous, H. Marshall, T. Mihara, F.A. Primini, J.C. Raymond, R. Rutten, Y. Soong, J. Stull, J. Trümper, W. Voges, R. M. Wagner, R. Wilson). IAU Symposium 165, Aug 15-19, 1994. The Hague, Netherlands.
- 1995 ASCA Observations of the Low-mass X-ray Binary 4U1254-69 (C. Xu, & S. D. Vrtilek). Joint Meeting of the APS and AAPT, 19 April 1995. Washington, D.C.
- 1995 An Archival Study of *Hubble Space Telescope* Observations of Hercules X-1/HZ Herculis (F.H. Cheng, S.D. Vrtilek, & J.C. Raymond). Joint Meeting of the APS and the AAPT, 19 April 1995. Washington, D.C.
- 1995 Observations of Hercules X-1 with IUE: Ultraviolet Results from a Multiwavelength Campaign (S.D. Vrtilek, F.H. Cheng, & J.C. Raymond). Joint Meeting of the APS and the AAPT, 19 April 1995. Washington, D.C.
- 1995 Pulse-Phase Spectroscopy of Hercules X-1 (ASCA Observations) (C. Xu, S.D. Vrtilek, B. Boroson, & R. McCray), BAAS, 27, 826.
- 1995 An Improved X-ray Heating Model for Her X-1 (F.H. Cheng, S.D. Vrtilek, & J.C. Raymond), IAU Colloquium 158, June 15-30th, Keele, England.
- 1996 Time-Resolved UV and X-ray Spectra of Her X-1 (B. Boroson, S.D. Vrtilek, R. McCray, T. Kallman, F. Nagase) AAS Head meeting, April 30 - May 3, San Diego, CA.
- 1996 Accretion Disk Dynamics: ASCA/HST Observations of Cyg X-2 (S.D. Vrtilek, B. Boroson, R. McCray, F. Nagase, J.C. Raymond, A. Smale, & T. Kallman), AAS Head meeting, April 30 - May 3, San Diego, CA.

- 1996 ASCA/HST Observations of Cyg X-2 (S.D. Vrtilik, B. Boroson, R. McCray, J.C. Raymond, R. McCray, A. Smale, T.R. Kallman & F. Nagase), BAAS, 28, 922.
- 1996 The UV Spectrum of Sco X-1 (T. Kallman, B. Boroson, & S.D. Vrtilik), BAAS, 29, 2009.
- 1997 Photoionization Effects in LMC X-4: Slices of a Stellar Wind (B. Boroson, S.D. Vrtilik, J.C. Raymond, R. McCray, & T. Kallman), AAS Head meeting, Nov 3-7, Estes Park, CO.
- 1997 Photoionization Effects in LMC X-4: Slices of a Stellar Wind. (B. Boroson, S.D. Vrtilik, J.C. Raymond, R. McCray, & T. Kallman), BAAS, 29, 1389.
- 1997 Radiation-Driven Warping in Cygnus X-2/V1341 Cygni. (S.D. Vrtilik, B. Boroson, F.A. Primini, J.C. Raymond, R. McCray, A. Smale, T. Kallman, & F. Nagase), BAAS, 29, 1380.
- 1998 The First ROSAT Source Catalogue of Pointed Observations with the HRI (Arida, M. et al.) <http://hea-www.harvard.edu/rosat/rsdcwww/RRA>.
- 1999 Hercules X-1: FITS to HST STIS Spectra (Boroson, B., Kallman, T., & Vrtilik, S.D.) HEAD, 31, 15.27.
- 1999 Yet Another Multi wavelength Campaign on Hercules X-1/HZ Herculis (Vrtilik, S.D., Boroson, B., Still, M., Fiedler, H., Quaintrell, H., & O'Brien, K.) BAAS, 194, 52.15.
- 1999 UV Quasiperiodic Oscillations from Hercules X-1 (B. Boroson, T. Kallman, & S.D. Vrtilik) BAAS, 195, 39.07
- 1999 Discovery of Spatial Structures in the X-ray Image of the Crab Nebula (M.C. Weisskopf *et al.*), BAAS, 195, 112.04.
- 2000 Atmospheric reflection during the anomalous low-state of Hercules X-1 (M. Still, K. O'Brien, K. Horne, B. Boroson, S.D. Vrtilik, L. Titarchuk, H. Quaintrell, & H. Fiedler) in Astrophysics with the Rossi X-ray Timing Explorer. March 22-24, 2000 at NASA's Goddard Space Flight Center, Greenbelt, MD USA, E108.
- 2000 Detection of Extended X-ray Emission from a Planetary Nebula with the Chandra X-ray Observatory (J.H. Kastner, N. Soker, R. Knill-Dgani, S.A. Rappaport, & S.D. Vrtilik) BAAS, 196, 430.3.
- 2000 Structure of the X-ray Emission from the Jet of 3C 273 (H.L. Marshall et al.) HEAD, 32, 5.05.
- 2000 Structure of the X-ray Emission from the Jet of 3C 273 (H.L. Marshall et al.) BAAS, 196, 50.09.
- 2000 High-Resolution X-ray Spectroscopy of 4U1735-44 (S.D. Vrtilik, J.E. McClintock, & J.C. Raymond) HEAD, 32, 25.13.
- 2001 High Energy Universe at Sharp Focus: Chandra Science proceedings of a conference held in St. Paul, MN, 16-18 July 2001. Edited by Eric M. Schlegel and Saeqa D. Vrtilik. Publisher: ASP Conference Series
- 2001 Spatial Analysis of the X-ray Jet of 3C 273 (D.A. Schwartz *et al.*), AAS, 198, 7306.
- 2001 The Asymmetric X-ray Morphologies of Planetary Nebulae (J.H. Kastner, C. F. Carlson, N. Soker, & S.D. Vrtilik), in Two Years of Science with Chandra held in Washington, D.C. Sep 2001.
- 2002 FUSE Spectroscopy of Hercules X-1 (Boroson, B. *et al.*), BAAS, 199, 9514.
- 2002 Interstellar Absorption Lines in X-ray Binaries (Vrtilik, S., Boroson, B., & Quaintrell, H.) AAS/HEAD Meeting, April 20-25, Albuquerque, NM.
- 2002 Chandra Grating Spectra of Flaring Supergiant X-ray Binary (Boroson, B., Vrtilik, S.D., Kallman, T., & Corcoran, M.) AAS/HEAD Meeting, April 20-25, Albuquerque, NM.

- 2002 Watching the Winds Interact, and Other Shocks: High-Resolution X-ray Spectral Imaging of Planetary Nebulae. (J.H. Kastner, N. Soker, J. Li, & Vrtiliek S.D.), BAAS, 201, 2205.
- 2002 X-ray Spectral Anomalies in Chandra-Observed Planetary Nebulae. (H.L. Maness, & S.D. Vrtiliek), 2002, BAAS, 201, 8914.
- 2002 An Atlas of Chandra ACIS-S/HETG Spectra of X-ray Binaries. (H. Quaintrell, S. Vrtiliek, & B. Boroson) X-ray Binaries in the Chandra and XMM-Newton Era (with an emphasis on Targets of Opportunity), Abstracts of the conference held 14-15 November, 2002 at MIT Draper Labs Extension, Cambridge, MA. Hosted by Chandra X-ray Center, 2002.
- 2002 Coordinated Chandra/HST studies of Stellar Wind X-ray Binaries. (S. Vrtiliek, A. Leblang, M. Shields, H. Quaintrell, & B. Boroson) X-ray Binaries in the Chandra and XMM-Newton Era (with an emphasis on Targets of Opportunity), Abstracts of the conference held 14-15 November, 2002 at MIT Draper Labs Extension, Cambridge, MA. Hosted by Chandra X-ray Center, 2002.
- 2002 Interstellar Absorption Lines in X-ray Binaries. (S. Vrtiliek, & B. Boroson) AAS/HEAD, Joint Meeting with APS. APRN17071V
- 2003 Ultraviolet Tomography of X-ray Binaries using HST/STIS. (Vrtiliek, Quaintrell, Boroson & shields), IAU JD09: Astrotomography.
- 2003 Photoionized Lines in the X-ray Spectra of SMC X-1. (Vrtiliek, Boroson, & A. Leblang), IAU JD17:
- 2003 Ultraviolet/X-ray Spectroscopy of Massive X-ray binaries. (Vrtiliek & Boroson), IAU JD20.
- 2004 Exploring SMC X-1 out of eclipse with Chandra and XMM. (R.C. Hickox, & S.D. Vrtiliek), HEAD, 8.250. Phase Variation in the Pulse Profile of SMC X-1. (J.M. Neilsen, R.C. Hickox, & S.D. Vrtiliek), AAS, 205, 1021.
- 2004 Chandra Orion Ultradeep Project Sees PMS Coronae Rotate. (E. Flaccomio, S.D. Vrtiliek, G. Micela, F.R. Harnden, S. Sciortino, S. Wolk, W. Herbst, F. Favata, & E.D. Feigelson), AAS, 205, 1051.
- 2005 Rotational modulation of X-ray emission in Orion Nebula young stars Flaccomio *et al.* in Star formation in the era of Three Great Observatories July 13-15, Cambridge
- 2006 Observing X-ray Binaries with Great Observatories (S.D. Vrtiliek, J. Neilsen, R. Hickox, B.S. Boroson) in Making the Most of the Great Observatories, Pasadena, 22-24 May, 2006.
- 2006 X-ray emission in Orion Nebula young stars (Flaccomio+, 2005) (E. Flaccomio, et al.) SIMBAD on-line catalog.
- 2006 X-Ray Ionization Effects on the Stellar Wind of Cygnus X-1 (S.D. Vrtiliek, A. Hunacek, & B.S. Boroson), HEAD, 9, 0131
- 2006 High Resolution Ultraviolet Spectroscopy of the X-ray Binary Cygnus X-1 (A.E. Hunacek, S.D. Vrtiliek, B.S. Boroson, & D. Geis), AAS, 209, 0706
- 2007 Doppler Tomography of A0620-00 (J. Neilsen, D. Steeghs, & S.D. Vrtiliek), AAS, 210, 2009.
- 2007 Doppler Tomography of the Black Hole Binary GX339-4. (D. Calvelo, S. Vrtiliek, J. Neilsen, M. Torres, & D. Steeghs), AAS, 211, 0318.
- 2008 Multiwavelength Studies of X-ray Binaries (S.D. Vrtiliek), AIPC, 1010, 18.
- 2009 Superorbital variation in LMC X-4: tracing the precessing disk (Hung, Li-Wei; Hickox, R. C.; Boroson, B. S.; Vrtiliek, S. D.) Chandra's First Decade of Discovery, Proceedings of the conference held 22-25 September, 2009 in Boston, MA. Edited by Scott Wolk, Antonella Fruscione, and Douglas Swartz, abstract 119.

- 2010 Suzaku X-ray Spectra and Pulse Profile Variations during the Superorbital Cycle of LMC X-4. (Hung, Li-Wei; Hickox, R. C.; Boroson, B. S.; Vrtilek, S. D.), AAS, 2154, 1909.
- 2011 An Eccentric Accretion Disk in V691 CrA? (C.S. Peris & S.D. Vrtilek) HEAD, 12, 1313.
- 2012 Shrinking Disk in V926 Sco (S. Connolly, & S.D. Vrtilek) AAS, 2194, 3307.
- 2012 Putting X-ray binaries in their proper place (S.D. Vrtilek) XRB, confE, 61.
- 2012 Intersections of Gender and Power: Improving the Status of Women in Physics (S.D. Vrtilek), APS, MARL, 2000, 5.
- 2013 A Multivariate Approach Towards Understanding Cygnus X-1 (S. Buchan, C.S. Peris, & S.D. Vrtilek) AAS, 2211, 4228.
- 2013 Using CCI to unravel the states of GRS 1915+105. (C.S. Peris, S. Buchan, & S.D. Vrtilek) APS, APR, s2018.
- 2013 Using CCI to unravel the states of GRS 1915+105. (C.S. Peris, S. Buchan, & S.D. Vrtilek) HEAD, 1312, 628.
- 2013 A Statistical Approach to Identifying Compact Objects in X-ray Binaries (S.D. Vrtilek), HEAD, 1320, 403.
- 2014 Analysis of multivariate data: algorithms for physical clustering, with application to extended time series data on XRBs. (S.D. Vrtilek, B.S. Boroson, & Richards, J.), AAS, 224, 405.05
- 2015 “A Bayesian Model for the Detection of X-ray Binary Black Holes.” (Gopalan, Bornn, & Vrtilek) AAS, 22522501.
- 2016 “Revelations of X-ray Spectral analysis of the enigmatic black hole binary GRS 1915+105”, (Peris et al) AAS, 227, 411.05
- 2016 “X-ray spectral analysis of the steady states of GRS 1915+105”, (Peris et al), HEAD, 151, 90.
- 2016 Classification of compact binaries: an X-ray analog to the HR diagram. (Vrtilek et al) AAS, 228, 208.02
- 2017 “The Structures of X-ray Binary Systems V801 Ara and Cyg X-3 from Doppler Tomography”, (, Vrtilek, Peris, Kolnonen, & McCollough), AAS 229, 344.03.
- 2017 “Chandra Early Type Galaxy Atlas” (Kim et al.) HEAD Meeting No. 16, 1610708.
- 2017 “Phase-resolved spectroscopy of the low-mass X-ray binary system 4U 1636-536/V801 Ara” HEAD meeting No. 16, 1610831.
- 2017 “Classification of X-ray point sources in external galaxies” (Vrtilek, Brauer, Peris, Boroson & McCollough) HEAD Meeting No. 16, 1610832.
- 2019 “A Survey of the Spectral Energy Distributions (SEDs) of Southern X-Ray Binaries” (McCollough, Vrtilek, Dickey, Tomsick, & Bailyn.
- 2019 “Effects of differing X-ray colors on Color-Color-Intensity diagrams of accreting binaries” (Vrtilek, Islam, Boroson, & Kim), HEAD Meeting No. 17, 1712107.
- 2019 “Increasing the Discovery Space in Astrophysics - A Collation of Six Submitted White Papers” (Fabbiano et al.), arXiv19030663.
- 2020 “Classifying X-ray Binaries Using Machine Learning” (de Beurs, Islam, Gopalan, & Vrtilek), AAS, 23516012.
- 2020 “Determining the nature of the compact object in extragalactic point sources” (Vrtilek, McCollough, Kim, Islam, Boroson, & the Chandra Galaxy Atlas Team), AAS, 23545002.
- 2020 “Chandra Early Type Galaxy Atlas” (Kim et al.) IAUS, 342, 242.