

## Craig L. Sarazin

### Publications

#### BOOKS:

- “X-ray Emission from Clusters of Galaxies,” C. L. Sarazin, (Cambridge: Cambridge University Press), i-x,1-252 (1988), ISBN: 978-0-521-32957-6 (hardcover), 978-0-521-11313-7 (paperback).
- “NASA’s Beyond Einstein Program: An Architecture for Implementation,” Kennel, C., Rothenberg, J., Adelberger, E., Adkins, W., Applequist, T., Barrowman, J., Bearden, D., Devlin, M., Fuller, J., Gebhardt, K., Gibson, W., Harrison, F., Lankford, A., McCarthy, D., Meyer, S., Primack, J., Randall, L., Sarazin, C., Ulvestad, J., Will, C., Witherell, M., & Wright, N., (Washington: National Academy of Sciences), i-xi,1-174 (2007), ISBN: 978-0-309-11162-1

#### ARTICLES OR BOOK CHAPTERS:

- \* “X-Ray Background Fluctuations,” C. Sarazin and G. P. Garmire, *Caltech Technical Report CIT-XRR-2*, 1-6 (1971).
- “The Proton-Proton Reaction at High Energies,” C. L. Sarazin, *Nuovo Cimento*, **26B**, 94-99 (1975).
- \* “Dust in the H II Region NGC 2024,” C. L. Sarazin, *Bulletin American Astronomical Society*, **7**, 259-260 (1975).
- “The Role of Dust in NGC 2024,” C. L. Sarazin, *Astrophysical Journal*, **204**, 68-72 (1976).
- “Infrared Studies of an Ionization Front in the Orion Nebula,” E. E. Becklin, S. Beckwith, I. Gatley, G. Neugebauer, C. L. Sarazin, and M. W. Werner, *Astrophysical Journal*, **207**, 770-779 (1976).
- “Abundance Gradients in Extragalactic H II Regions and Internal Absorption by Dust,” C. L. Sarazin, *Astrophysical Journal*, **208**, 323-335 (1976).
- “Effects of Dust on the Structure of H II Regions,” C. L. Sarazin, *Astrophysical Journal*, **211**, 772-785 (1977).
- \* “Models for the X-Ray Line Emission from Clusters of Galaxies,” C. L. Sarazin and J. N. Bahcall, *Bulletin American Astronomical Society*, **8**, 335-356 (1977).
- “Parameters and Predictions for X-Ray Emitting Gas in Coma, Perseus, and Virgo,” J. N. Bahcall and C. L. Sarazin, *Astrophysical Journal (Letters)*, **213**, L99-L103 (1977).
- “X-Ray Line Emission for Clusters of Galaxies: II. Numerical Models,” C. L. Sarazin and J. N. Bahcall, *Astrophysical Journal Supplement*, **34**, 451-467 (1977).
- “On the Zeeman Splitting of X-Ray Lines by Neutron Star Magnetic Fields,” C. L. Sarazin and J. N. Bahcall, *Astrophysical Journal (Letters)*, **216**, L67-L70 (1977).

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\*Not Refereed

- “X-Ray Line Spectroscopy for Clusters of Galaxies: I,” J. N. Bahcall and C. L. Sarazin, *Astrophysical Journal*, **219**, 781-794 (1978).
- “The Effect of Multiple Grain Components on Infrared Radiation Transfer and the  $10\mu$  Silicate Feature,” C. L. Sarazin, *Astrophysical Journal*, **220**, 165-170 (1978).
- \* “Dips in the Cosmic Background,” C. L. Sarazin, *Physics News*, 10-11 (1978).
- \* “Optical Pumping and Fine Structure Absorption in Quasars,” C. L. Sarazin, B. P. Flannery, and G. B. Rybicki, *Bulletin American Astronomical Society*, **10**, 449-450 (1978).
- “Dynamical Interactions and Astrophysical Effects of Stable Heavy Neutrinos,” G. Steigman, C. Sarazin, H. Quintana, and J. Faulkner, *Astronomical Journal*, **83**, 1050-1061 (1978).
- “On the Distance from Quasars to Absorbing Clouds,” C. L. Sarazin, B. P. Flannery, and G. B. Rybicki, *Astrophysical Journal (Letters)*, **227**, L113-L116 (1979).
- “Ultraviolet Pumping of  $N^+$  Fine Structure Levels,” B. P. Flannery, G. B. Rybicki, and C. L. Sarazin, *Astrophysical Journal*, **229**, 1057-1073 (1979).
- “An Asymptotic Limit of Optical Pumping in an Opaque Region,” C. L. Sarazin, B. P. Flannery, and G. B. Rybicki, *Astrophysical Journal*, **230**, 456-468 (1979).
- “A Possible Record of X and/or Gamma Rays from Supernovae in Glacial Ice,” R. T. Rood, C. L. Sarazin, E. J. Zeller, and B. C. Parker, *Nature*, **282**, 701-703h (1979).
- \* “Disk-Driven Precession in SS433,” C. L. Sarazin, M. C. Begelman, and S. P. Hatchett, *Bulletin American Astronomical Society*, **11**, 672 (1979).
- \* “Beam Models for SS433,” M. C. Begelman, C. L. Sarazin, S. P. Hatchett, C. F. McKee, and J. Arons, *Bulletin American Astronomical Society*, **11**, 672 (1979).
- “Galactic Coronae, Quasar Absorption Lines, and the Origin of the Intracluster Medium,” C. L. Sarazin, *Astrophysical Letters*, **20**, 93-100 (1979).
- \* “Disk-Driven Precession in SS433,” C. L. Sarazin, M. C. Begelman, and S. P. Hatchett, *Bulletin American Astronomical Society*, **11**, 786-787 (1979).
- “A Maximum Likelihood Method for Determining the Distribution of Galaxies in Clusters,” C. L. Sarazin, *Astrophysical Journal*, **236**, 75-83 (1980).
- “Beam Models for SS433,” M. C. Begelman, C. L. Sarazin, S. P. Hatchett, C. F. McKee, and J. Arons, *Astrophysical Journal*, **238**, 722-730 (1980).
- “Disk-Driven Precession in SS433,” C. L. Sarazin, M. C. Begelman, and S. P. Hatchett, *Astrophysical Journal (Letters)*, **238**, L129-L132 (1980).
- “UV Pumping of  $Si^+$  Fine Structure Levels,” B. P. Flannery, G. B. Rybicki, and C. L. Sarazin, *Astrophysical Journal Supplement*, **44**, 539-553 (1980).

- “Photoionization and the Auger Effect in Astrophysics,” C. L. Sarazin, in *Proceedings of the Johns Hopkins Workshop on Current Problems in Physics: Theoretical Atomic Physics in Astrophysics*, ed. by L. Armstrong and R. Henry, (Baltimore: Johns Hopkins University Press), 11-18 (1981).
- “SC2059-247: An Unusual Radio/X-ray Source in a Distant Cluster of Galaxies,” R. White, C. L. Sarazin, H. Quintana, and W. Jaffe, *Astrophysical Journal (Letters)*, **245**, L1-L4 (1981).
- “Recombination Coefficients for Iron Ions,” D. T. Woods, J. M. Shull, and C. L. Sarazin, *Astrophysical Journal*, **249**, 399-401 (1981) and **257**, 918 (1982) errata.
- “A New Look at the Dynamics of Twisted Accretion Disks,” S. P. Hatchett, M. C. Begelman, and C. L. Sarazin, *Astrophysical Journal*, **249**, 677-685 (1981).
- “Gravitational Spin Precession in Binary Systems,” A. J. S. Hamilton and C. L. Sarazin, *Monthly Notices Royal Astronomical Society*, **198**, 59-70 (1982).
- “A Table of Redshifts for Abell Clusters,” C. L. Sarazin, H. J. Rood, and M. F. Struble, *Astronomy and Astrophysics*, **107**, L7-L10 (1982).
- \* “IPC Observations of Distant Clusters of Galaxies,” R. A. White, C. L. Sarazin, and H. Quintana, *Bulletin American Astronomical Society*, **14**, 964 (1982).
- “X-Ray Line Emission from Supernova Remnants: I. Models for Adiabatic Remnants,” A. J. S. Hamilton, C. L. Sarazin, and R. A. Chevalier, *Astrophysical Journal Supplement*, **51**, 115-148 (1983).
- “A Simple Theory of How Spiral Galaxies Acquire their Global Properties,” D. Burstein and C. L. Sarazin, *Astrophysical Journal*, **264**, 427-431 (1983).
- “Accretion-Driven Star Formation in Central Dominant Galaxies in X-Ray Clusters,” C. L. Sarazin and R. W. O’Connell, *Astrophysical Journal*, **268**, 552-560 (1983).
- \* “X-Ray Line Emission from Supernova Remnants and Models for Nonequilibrium Ionization,” C. L. Sarazin, A. J. S. Hamilton, and R. A. Chevalier, in *Proceeding of I.A.U. Symposium 101: Supernova Remnants and their X-ray Emission*, ed. by I. J. Danziger and P. Gorenstein, (Dordrecht: Reidel) 109-112 (1983).
- \* “The Effects of SNR Structure on Nonequilibrium Ionization and Emission,” C. L. Sarazin, A. J. S. Hamilton, and R. A. Chevalier, in *Proceeding of I.A.U. Symposium 101: Supernova Remnants and their X-ray Emission*, ed. by I. J. Danziger and P. Gorenstein, (Dordrecht: Reidel) 113-118 (1983).
- “High Velocity Iron Absorption Lines in the Supernova Remnant 1006,” C. Wu., M. Leventhal, C. L. Sarazin, and T. Gull, *Astrophysical Journal (Letters)*, **269**, L5-L9 (1983).
- “Radio Recombination Lines and the Distance to Quasars,” C. L. Sarazin and E. J. Wadiak, *Astronomy and Astrophysics*, **123**, L1-L3 (1983).
- \* “Atomic Processes,” C. L. Sarazin, *Science*, **221**, 452 (1983).

- “Deceleration of GUT Monopoles in a Plasma,” A. J. S. Hamilton, and C. L. Sarazin, *Astrophysical Journal*, **274**, 399-407 (1983).
- “Radio Recombination Lines from Quasars I. Level Populations of Hydrogenic Ions in a Strong, Nonthermal Radiation Field,” E. J. Wadiak, C. L. Sarazin, and R. L. Brown, *Astrophysical Journal Supplement*, **53**, 351-373 (1983).
- \* “Star Formation in X-Ray Cluster Cooling Flows,” R. E. White and C. L. Sarazin, *Bulletin American Astronomical Society*, **15**, 945 (1983).
- \* “Theoretical Models of Quasar Radio Recombination Lines,” E. J. Wadiak and C. L. Sarazin, *Bulletin American Astronomical Society*, **15**, 958 (1983).
- “A New Similarity Solution for Reverse Shocks in Supernova Ejecta,” A. J. S. Hamilton and C. L. Sarazin, *Astrophysical Journal*, **281**, 682-689 (1984).
- “X-ray Emission from Supernova Remnants II. The Effect of SNR Structure on Nonequilibrium X-ray Spectra,” A. J. S. Hamilton and C. L. Sarazin, *Astrophysical Journal*, **284**, 601-611 (1984).
- “Heating and Cooling in Reverse Shocks in Pure Heavy Element Supernova Ejecta,” A. J. S. Hamilton and C. L. Sarazin, *Astrophysical Journal*, **287**, 282-294 (1984).
- \* “Star Formation in Cooling Flows of M87 and NGC 1275,” R. E. White and C. L. Sarazin, *Bulletin American Astronomical Society*, **16**, 881-882 (1984).
- “X-ray Spectra of Young Type I Supernova Remnants: Exploded White Dwarfs?,” A. J. S. Hamilton, C. L. Sarazin, A. E. Szymkowiak, and M. H. Vartanian, *Astrophysical Journal (Letters)*, **297**, L5-L9 (1985).
- \* “Head-Tail Radio Galaxies and the Orbits of Galaxies in Clusters,” C. L. Sarazin, C. P. O’Dea, and F. N. Owen, *Bulletin American Astronomical Society*, **17**, 757 (1985).
- \* “Cooling Flows and the X-ray Emission of Elliptical Galaxies,” C. L. Sarazin, *Bulletin American Astronomical Society*, **17**, 907 (1985).
- “The X-ray Spectrum of SN1006,” A. J. S. Hamilton, C. L. Sarazin, and A. E. Szymkowiak, *Astrophysical Journal*, **300**, 698-712 (1986).
- “The X-ray Spectrum of Tycho,” A. J. S. Hamilton, C. L. Sarazin, and A. E. Szymkowiak, *Astrophysical Journal*, **300**, 713-721 (1986).
- “X-ray Emission from Clusters of Galaxies,” C. L. Sarazin, *Reviews of Modern Physics*, **58**, 1-115 (1986).
- “SN1985f: Death of a Wolf-Rayet Star,” M. Begelman and C. L. Sarazin, *Astrophysical Journal Letters*, **302**, L59-L62 (1986).
- \* “Mass Distributions at Large Radii,” in *Abstracts, I.A.U. Symposium 127: Structure and Dynamics of Elliptical Galaxies*, ed. by T. de Zeeuw, 10 (1986).

- “A Simple Cooling Flow Model for X-ray Coronae around Elliptical Galaxies,” C. L. Sarazin, in *Proceedings of the Greenbank Workshop on Gaseous Haloes around Galaxies*, ed. by J. Bregman and F. Lockman, 223–230 (1986).
- \* “X-ray Haloes in Galaxies and Clusters of Galaxies: Theory,” C. L. Sarazin, in *Proceedings of I.A.U. Symposium 117: Dark Matter in the Universe*, ed. by G. Knapp and J. Kormendy, (Dordrecht: Reidel), 183–199 (1987).
- \* “X-ray Observations of Clusters: Physical Implications,” C. L. Sarazin, in *Radio Continuum Processes in Clusters of Galaxies*, NRAO–Green Bank Workshop # 16, ed. by C. P. O’Dea and J. M. Uson, 23–36 (1987).
- \* “Narrow-Angle Tail Radio Sources and Evidence for Radial Orbits in Abell Clusters,” C. P. O’Dea, C. L. Sarazin, and F. N. Owen, in *Radio Continuum Processes in Clusters of Galaxies*, NRAO–Green Bank Workshop # 16, ed. by C. P. O’Dea and J. M. Uson, 275–281 (1987).
- “Narrow-Angle Tail Radio Sources and the Distribution of Galaxy Orbits in Abell Clusters,” C. P. O’Dea, C. L. Sarazin, and F. N. Owen, *Astrophysical Journal*, **316**, 113–126 (1987).
- “Star Formation in X-ray Cluster Cooling Flows,” R. E. White III and C. L. Sarazin, *Astrophysical Journal*, **318**, 612–620 (1987).
- “Determining Star Formation Rates in X-Ray Cluster Cooling Flows,” R. E. White III and C. L. Sarazin, *Astrophysical Journal*, **318**, 621–628 (1987).
- “Numerical Models of Star Formation in X-ray Cluster Cooling Flows,” R. E. White III and C. L. Sarazin, *Astrophysical Journal*, **318**, 629–644 (1987).
- “Steady-State Cooling Flow Models for Normal Elliptical Galaxies,” C. L. Sarazin and R. E. White III, *Astrophysical Journal*, **320**, 32–48 (1987).
- \* “Mass Distributions of Elliptical Galaxies at Large Radii,” in *Proceedings of I.A.U. Symposium 127: Structure and Dynamics of Elliptical Galaxies*, ed. by T. de Zeeuw, (Dordrecht: Reidel), 179–188 (1987).
- “Hot Gas in the Universe,” R. A. Chevalier and C. L. Sarazin, *American Scientist*, **75**, 609–618 (1987).
- \* “Star Formation in the Cooling Flows of M87/Virgo and NGC 1275/Perseus,” R. E. White III and C. L. Sarazin, *Bulletin American Astronomical Society*, **19**, 1105 (1987).
- “Cooling Flows and the Stability of Radio Jets,” N. Soker and C. L. Sarazin, *Astrophysical Journal*, **327**, 66–81 (1988).
- “Numerical Simulations of the Bending of Narrow–Angle–Tail Radio Jets by Ram Pressure or Pressure Gradients,” N. Soker, C. P. O’Dea, and C. L. Sarazin, *Astrophysical Journal*, **327**, 627–638 (1988).
- \* “Properties of Clusters of Galaxies,” C. L. Sarazin, in *Cooling Flows in Galaxies and Clusters*, ed. by A. Fabian (Dordrecht: Kluwer), 1–15 (1988).

- \* “The Role of Magnetic Fields in Cluster Cooling Flows,” N. Soker and C. L. Sarazin, in *Cooling Flows in Galaxies and Clusters*, ed. by A. Fabian (Dordrecht: Kluwer), 367–371 (1988).
- “The X-ray Emission of Normal Elliptical Galaxies: Steady State Cooling Flow Models,” C. L. Sarazin and R. E. White III, *Astrophysical Journal*, **331**, 102–115 (1988).
- \* “X–ray Spectra of Clusters of Galaxies,” C. L. Sarazin, in *I.A.U. Colloquium 115: High Resolution X–ray Spectroscopy of Cosmic Plasmas – Abstracts*, ed. by P. Gorenstein and M. Zombeck, 1 (1988).
- “Star Formation in the Cooling Flows of M87/Virgo and NGC 1275/Perseus,” R. E. White III and C. L. Sarazin, *Astrophysical Journal*, **335**, 688–702 (1988).
- “Using X-ray Absorption Lines to Determine the Distances to Clusters of Galaxies,” C. L. Sarazin, *Astrophysical Journal*, **345**, 12–21 (1989).
- “Steady–State Cooling Flow Models with Gas Loss for Normal Elliptical Galaxies,” C. L. Sarazin and G. A. Ashe, *Astrophysical Journal*, **345**, 22–30 (1989).
- “Charge Transfer and X–ray Emission from Supernova Remnants,” M. W. Wise and C. L. Sarazin, *Astrophysical Journal*, **345**, 384–392 (1989).
- \* “Electron Scattering and the Distances to Cluster Cooling Flows,” M. W. Wise and C. L. Sarazin, *Bulletin American Astronomical Society*, **21**, 1169 (1989).
- “The Role of Magnetic Fields in Cluster Cooling Flows,” N. Soker and C. L. Sarazin, *Astrophysical Journal*, **348**, 73–84 (1990).
- \* “X–ray Spectra of Clusters of Galaxies,” C. L. Sarazin, in *High Resolution X–ray Spectroscopy of Cosmic Plasmas*, ed. by P. Gorenstein and M. Zombeck (Dordrecht: Kluwer), 209–218 (1990).
- \* “The X-ray Emission of Normal Elliptical Galaxies and their Environment,” C. L. Sarazin and R. E. White III, in *Windows on Galaxies*, ed. by G. Fabbiano, J. S. Gallagher, and A. Renzini (Dordrecht: Kluwer), 279–282 (1990).
- \* “ISM Stripping from Cluster Galaxies and Cooling Flows,” N. Soker, J. N. Bregman, and C. L. Sarazin, in *Proceedings of the Wyoming Conference on the Interstellar Medium of External Galaxies*, ed. by D. J. Hollenbach and H. A. Thronson, Jr. Shull (Washington: NASA), 203 (1990).
- \* “Accounting for the Dispersion in the X-ray Properties of Early–Type Galaxies,” R. E. White III and C. L. Sarazin, in *Proceedings of the Wyoming Conference on the Interstellar Medium of External Galaxies*, ed. by D. J. Hollenbach and H. A. Thronson, Jr. Shull (Washington: NASA), 204–205 (1990).
- \* “Interaction of Old Planetary Nebulae with the Interstellar Medium,” K. J. Borkowski, C. L. Sarazin, and N. Soker, *Bulletin American Astronomical Society*, **22**, 751 (1990).
- “Cooling Flows and X-Ray Emission in Early-Type Galaxies,” C. L. Sarazin, in *The Interstellar Medium of External Galaxies*, ed. by H. A. Thronson, Jr. and J. M. Shull (Dordrecht: Kluwer), 201–238 (1990).

- “Interaction of Planetary Nebulae with the Interstellar Medium,” K. J. Borkowski, C. L. Sarazin, and N. Soker, *Astrophysical Journal*, **360**, 173–183 (1990).
- “Electron Scattering and the Distances to Cluster Cooling Flows,” M. W. Wise and C. L. Sarazin, *Astrophysical Journal*, **363**, 344–348 (1990).
- “Optical Coronal Emission Lines from Equilibrium and Cooling Plasmas,” C. M. Graney, and C. L. Sarazin, *Astrophysical Journal*, **364**, 561–567 (1990).
- \* “X-ray Spectra and Opacity Effects in Cluster Cooling Flows,” M. W. Wise and C. L. Sarazin, *Bulletin American Astronomical Society*, **22**, 1227 (1990).
- “Evidence for Environmental Effects on Early-type Galaxy X-ray Halos,” R. E. White III and C. L. Sarazin, *Astrophysical Journal*, **367**, 476–489 (1991).
- “Stripped Interstellar Gas in Cluster Cooling Flows,” N. Soker, J. N. Bregman, and C. L. Sarazin, *Astrophysical Journal*, **368**, 341–347 (1991).
- “Optical Coronal Emission Lines from Cooling Flows in Elliptical Galaxies and Galaxy Clusters,” C. L. Sarazin, and C. M. Graney, *Astrophysical Journal*, **375**, 532–543 (1991).
- \* “Electron Scattering of Beamed Radiation from AGN in Cluster Cooling Flows,” M. W. Wise and C. L. Sarazin, in *Clusters and Superclusters of Galaxies: Contributed Talks and Poster Papers*, ed. by M. M. Colless, A. Babul, A. C. Edge, R. M. Johnstone, and S. Raychaudhary (Cambridge: Institute of Astronomy), 153–154 (1991).
- “Interaction of Planetary Nebulae with the Interstellar Medium: Theory,” N. Soker, K. J. Borkowski, and C. L. Sarazin, *Astronomical Journal*, **102**, 1381–1392 (1991).
- \* “Environmental Effects and the Gaseous Content of Early-Type Galaxies,” C. L. Sarazin, and R. E. White III, in *Proceedings of the Sesto Pusteria Workshop on Superclusters and Clusters of Galaxies and Environmental Effects*, ed. by G. Giuricin, F. Mardirossian, and M. Mezzetti, 103–106 (1991).
- \* “Apparent Environmental Influence on Early-Type Galaxy X-ray Halos,” R. E. White III, and C. L. Sarazin, in *Proceedings of the Sesto Pusteria Workshop on Superclusters and Clusters of Galaxies and Environmental Effects*, ed. by G. Giuricin, F. Mardirossian, and M. Mezzetti, 131–134 (1991).
- \* “Iron Line Diagnostics in Elliptical Galaxies and Cluster Cooling Flows,” C. L. Sarazin and M. W. Wise, in *Iron Line Diagnostics in X-ray Sources*, ed. by A. Treves, G. C. Perola, and L. Stella (Berlin: Springer-Verlag), 57–66 (1991).
- \* “X-ray Emitting Filaments in the Cooling Flow Cluster A2029,” C. L. Sarazin, R. W. O’Connell, and B. R. McNamara, in *Galaxy Environments and the Large Scale Structure of the Universe*, ed. by G. Giuricin, F. Mardirossian, and M. Mezzetti, 145–148 (1991).
- \* “BL Lac Objects, FR I Radio Sources, and Cluster Cooling Flows,” C. L. Sarazin and M. W. Wise, in *Galaxy Environments and the Large Scale Structure of the Universe*, ed. by G. Giuricin, F. Mardirossian, and M. Mezzetti, 149–154 (1991).
- \* “Dynamics of Kepler’s Supernova Remnant,” K. J. Borkowski, J. M. Blondin, and C. L. Sarazin, *Bulletin American Astronomical Society*, **23**, 1408 (1991).

- “X-Ray Emitting Filaments in the Cooling Flow Cluster A2029,” C. L. Sarazin, R. W. O’Connell, and B. R. McNamara, *Astrophysical Journal Letters*, **389**, L59–L62 (1992).
- “The Intracluster Medium,” C. L. Sarazin, in *Clusters and Superclusters of Galaxies*, ed. by A. C. Fabian (Dordrecht: Kluwer), 131–150 (1992).
- “Cooling Flows in Clusters of Galaxies,” C. L. Sarazin, in *Frontiers of X-ray Astronomy*, ed. by Y. Tanaka and K. Koyama (Tokyo: Universal Academy), 487–495 (1992).
- “Using Electron Scattering to Probe the Environment of Cluster Cooling Flows,” M. W. Wise, and C. L. Sarazin, *Astrophysical Journal*, **395**, 387–402 (1992).
- “X-Ray and Optical Emission Line Filaments in the Cooling Flow Cluster 2A0335+096,” C. L. Sarazin, R. W. O’Connell, and B. R. McNamara, *Astrophysical Journal Letters*, **397**, L31–L34 (1992).
- “Dynamics of Kepler’s Supernova Remnant,” K. J. Borkowski, J. M. Blondin, and C. L. Sarazin, *Astrophysical Journal*, **400**, 222–237 (1992).
- \* “X-Ray Filaments in Cluster Cooling Flows,” C. L. Sarazin, R. W. O’Connell, and B. R. McNamara, *Bulletin American Astronomical Society*, **24**, 1143 (1992).
- \* “X-Ray Absorption by Cold Gas in Cluster Cooling Flows,” M. W. Wise and C. L. Sarazin, *Bulletin American Astronomical Society*, **24**, 1290 (1992).
- “X-Ray Emission from Galaxies,” C. L. Sarazin, in *Physics of Nearby Galaxies: Nature or Nurture?*, ed. by T. X. Thuan, C. Balkowski, and J. Tran Thanh Van (Paris: Editions Frontières), 51–65 (1992).
- “BL Lacertae Objects, Fanaroff–Riley I Radio Sources, and Cluster Cooling Flows,” C. L. Sarazin and M. W. Wise, *Astrophysical Journal*, **411**, 55–66 (1993).
- \* “Galactic High Mass X-Ray Binary Population Synthesis,” W. W. Dalton and C. L. Sarazin, *Bulletin American Astronomical Society*, **25**, 866 (1993).
- “The X-ray Spectra of Cluster Cooling Flows: I. Optically Thin Models,” M. W. Wise and C. L. Sarazin, *Astrophysical Journal*, **415**, 58–74 (1993).
- “FOS Spectra of the Broad Fe II Absorption Lines in Supernova Remnant 1006,” C.-C. Wu, D. M. Crenshaw, R. A. Fesen, A. J. Hamilton, and C. L. Sarazin, *Astrophysical Journal*, **416**, 247–250 (1993).
- “X-ray Filaments in Cluster Cooling Flows,” C. L. Sarazin, *Advances in Space Research*, **13**, 12, 365–368 (1993).
- \* “X-ray Opacity in Cluster Cooling Flows,” M. W. Wise and C. L. Sarazin, in *The Evolution of Galaxies and Their Environment*, ed. by D. Hollenbach, H. Thronson, and J. M. Shull, (Washington: NASA Ames Research Center), 271–272 (1993).
- \* “Mechanisms for Cold Cloud Survival in Cooling Flows,” S. Pistinner and C. L. Sarazin, *Bulletin American Astronomical Society*, **25**, 1374 (1993).



- \* “X-ray Signatures of Cold Gas in Cluster Cooling Cores,” M. W. Wise and C. L. Sarazin, *Bulletin American Astronomical Society*, **25**, 1374 (1993).
- \* “Expected Emission from the Lithium-like  $^{57}\text{Fe}$  Hyperfine Radio Line in Cluster Cooling Flows,” N. D’Cruz and C. L. Sarazin, *Bulletin American Astronomical Society*, **25**, 1375 (1993).
- \* “High Mass X-ray Binary Population Synthesis,” W. W. Dalton and C. L. Sarazin, *Bulletin American Astronomical Society*, **25**, 1391 (1993).
- “On the X-Ray Spectrum of Kepler’s Supernova Remnant,” K. J. Borkowski, C. L. Sarazin, and J. M. Blondin, *Astrophysical Journal*, **429**, 710–725 (1994).
- “Explosions of Infalling Comets in Jupiter’s Atmosphere,” R. A. Chevalier and C. L. Sarazin, *Astrophysical Journal*, **429**, 863–875 (1994).
- “Predicted Optical/UV Line Fluxes for the Warm Absorber in Abell 2256,” S. Pistinner and C. L. Sarazin, *Astrophysical Journal*, **433**, 577–582 (1994).
- \* “The Physics of Cooling and Cold Gas in Clusters of Galaxies,” C. L. Sarazin, in *High Energy Astrophysics: The Multi-Mission Perspective*, (Sonoma: Eureka Scientific), 21 (1994).
- \* “The Galactic High Mass X-ray Binary Population,” W. W. Dalton and C. L. Sarazin, in *The Evolution of X-Ray Binaries*, ed. by S. Holt and C. Day (New York: American Institute of Physics), 324–328 (1994).
- \* “The Cold Absorber in Clusters of Galaxies: New ASCA and ROSAT Observations and Models,” C. L. Sarazin and M. W. Wise, in *High Energy Astrophysics: The Multi-Mission Perspective*, (Sonoma: Eureka Scientific), 75 (1994).
- \* “The Cold Absorber in Clusters of Galaxies: New ASCA Observations and Models,” M. W. Wise and C. L. Sarazin, *Bulletin American Astronomical Society*, **26**, 1428 (1994).
- \* “Radio-Aligned Blue Lobes in the Nearby Radio Galaxy 3C 171,” B. R. McNamara, C. L. Sarazin, and B. T. Jannuzi, *Bulletin American Astronomical Society*, **26**, 1504 (1994).
- “X-Ray, Radio, and Optical Structures in Cooling Flow Clusters,” C. L. Sarazin, in *Clusters of Galaxies*, ed. by F. Durret, A. Mazure, and J. Tran Thanh Van, (Paris: Editions Frontières), 199–202 (1994).
- “High Mass X-Ray Binary Populations: I. Galactic Modeling,” W. W. Dalton and C. L. Sarazin, *Astrophysical Journal*, **440**, 280–296 (1995).
- \* “X-ray Spectra of Clusters of Galaxies and Cluster Cooling Flows,” C. L. Sarazin, in *The Eleventh Colloquium on UV and X-Ray Spectroscopy of Astrophysical and Laboratory Plasmas*, ed. by K. Yamashita and T. Watanabe, (Nagoya: Univ. Nagoya Press), 1 (1995).
- “Comparison of the Radio, Optical, and X-ray Structure of the cD Galaxy in A2597,” C. L. Sarazin, J. O. Burns, K. Roettiger, and B. McNamara, *Astrophysical Journal*, **447**, 559–571 (1995).

- \* “An ASCA Study of the Hot Gas Properties of Bright Clusters of Galaxies,” K. Kikuchi, T. Ohashi, Y. Ikebe, and C. L. Sarazin, in *The Eleventh Colloquium on UV and X-Ray Spectroscopy of Astrophysical and Laboratory Plasmas*, ed. by K. Yamashita and T. Watanabe, (Nagoya: Univ. Nagoya Press), 81 (1995).
- “Binary Models for the Solar Neighborhood and Magellanic Cloud WR Populations,” W. Dalton and C. L. Sarazin, *Astrophysical Journal*, **448**, 369–379 (1995).
- \* “ROSAT Observations and Correlated X-ray, Radio, and Optical Features in Cluster Cooling Flows,” C. L. Sarazin, in *Röntgenstrahlung from the Universe*, ed. by J. Trümper and U. Zimmermann (Garching: MPE), 31 (1995).
- \* “ASCA Studies of the Hot Gas in Clusters of Galaxies,” T. Ohashi, K. Kikuchi, N. Yamasaki, Y. Ikebe, Y. Fukazawa, K. Makishima, Y. Ishisaki, H. Ezawa, T. Takahashi, and C. L. Sarazin, in *Röntgenstrahlung from the Universe*, ed. by J. Trümper and U. Zimmermann (Garching: MPE), 26 (1995).
- \* “An X-Ray Morphological and Spectral Study of NGC 4472: Interaction with its Environment,” J. A. Irwin, and C. L. Sarazin, in *Röntgenstrahlung from the Universe*, ed. by J. Trümper and U. Zimmermann (Garching: MPE), 137 (1995).
- “Unusual Radio Structures in the Cooling Flow Cluster 2A0335+096,” C. L. Sarazin, S. A. Baum, and C. P. O’Dea, *Astrophysical Journal*, **451**, 125–146 (1995).
- “ROSAT X-Ray Observations of the 2A 0335+096 Cluster of Galaxies,” J. A. Irwin and C. L. Sarazin, *Astrophysical Journal*, **455**, 497–507 (1995).
- \* “X-Ray and Radio Structures in Cooling Flows Clusters,” Z. Huang and C. L. Sarazin, *Bulletin American Astronomical Society*, **27**, 1421 (1995).
- \* “U-Band Imaging Polarimetry of the Blue Optical Lobes in the Abell 1795 Cluster Central Galaxy,” B. R. McNamara, B. T. Jannuzi, R. Elston, C. L. Sarazin, and M. W. Wise, *Bulletin American Astronomical Society*, **27**, 1443 (1995).
- \* “X-ray Spectra of Clusters of Galaxies and Cluster Cooling Flows,” C. L. Sarazin, in *The Eleventh Colloquium on UV and X-Ray Spectroscopy of Astrophysical and Laboratory Plasmas*, ed. by K. Yamashita and T. Watanabe (Tokyo: Universal Academy), 9–14 (1996).
- \* “ASCA Study of Hot Gas Properties in Bright Clusters,” K. Kikuchi, T. Ohashi, Y. Yamasaki, Y. Ikebe, Y. Ishisaki, T. Takahashi, and C. L. Sarazin, in *The Eleventh Colloquium on UV and X-Ray Spectroscopy of Astrophysical and Laboratory Plasmas*, ed. by K. Yamashita and T. Watanabe (Tokyo: Universal Academy), 391–394 (1996).
- “An X-Ray Morphological and Spectral Study of NGC 4472: Interaction with its Environment,” J. A. Irwin, and C. L. Sarazin, in *Röntgenstrahlung from the Universe*, ed. by H. U. Zimmermann, J. E. Trümper, and H. Yorke (Garching: MPE), 381–382 (1996).
- “ROSAT Observations and Correlated X-ray, Radio, and Optical Features in Cluster Cooling Flows,” C. L. Sarazin, in *Röntgenstrahlung from the Universe*, ed. by H. U. Zimmermann, J. E. Trümper, and H. Yorke (Garching: MPE), 561–564 (1996).

- “ASCA Studies of the Hot Gas in Clusters of Galaxies,” T. Ohashi, K. Kikuchi, N. Yamasaki, Y. Ikebe, Y. Fukazawa, K. Makishima, Y. Ishisaki, H. Ezawa, T. Takahashi, Y. Tawara, and C. L. Sarazin, in *Röntgenstrahlung from the Universe*, ed. by H. U. Zimmermann, J. E. Trümper, and H. Yorke (Garching: MPE), 605–606 (1996).
- \* “ASCA Atlas of Cluster Temperatures,” M. Markevitch, C. Sarazin, *et al.*, in *X-ray Imaging and Spectroscopy of Cosmic Hot Plasmas*, ed. by F. Makino (Tokyo: Waseda Univ.), 11 (1996).
- \* “Internal Absorption in Cluster Cooling Flows,” M. Wise, and C. Sarazin, in *X-ray Imaging and Spectroscopy of Cosmic Hot Plasmas*, ed. by F. Makino (Tokyo: Waseda Univ.), 53 (1996).
- \* “The Cassiopeia A Supernova Remnant: Dynamics and Chemical Abundances,” K. J. Borkowski, J. M. Blondin, A. E. Szymkowiak, and C. L. Sarazin, in *Cosmic Abundances*, ed. by S. Holt and G. Sonneborn (San Francisco: Publ. Astr. Soc. Pacific), 294–297 (1996).
- \* “X-Ray Emission from Normal Elliptical Galaxies,” C. L. Sarazin, in *Elliptical Galaxies: Dynamics and Structure*, ed. by A. Kembavi (Pune, India: IUCAA Press), 101–102 (1996).
- \* “Clusters of Galaxies, cD Galaxies, and Cluster Cooling Flows,” C. L. Sarazin, in *Elliptical Galaxies: Dynamics and Structure*, ed. by A. Kembavi (Pune, India: IUCAA Press), 103–104 (1996).
- \* “Magnetic Fields and Correlated X-Ray, Radio, and Optical Structures in Cooling Flow cD Galaxies,” C. L. Sarazin, in *Elliptical Galaxies: Dynamics and Structure*, ed. by A. Kembavi (Pune, India: IUCAA Press), 105–106 (1996).
- “A High Resolution ROSAT X-Ray Study of the Hercules Cluster,” Z. Huang and C. L. Sarazin, *Astrophysical Journal*, **461**, 622–640 (1996).
- “Nonmagnetic and Magnetized Cooling Flow Models,” D. M. Christodoulou and C. L. Sarazin, *Astrophysical Journal*, **463**, 80–94 (1996).
- “Optical, Radio, and X-ray Structure in NGC 1275,” B. R. McNamara, R. W. O’Connell, and C. L. Sarazin, *Astronomical Journal*, **112**, 91–104 (1996).
- “Optical Structure in the Abell 1795 Cluster Central Galaxy: Evidence for Stripping and Deflection of Radio Jets,” B. R. McNamara, M. W. Wise, C. L. Sarazin, B. T. Jannuzi, and R. Elston, *Astrophysical Journal Letters*, **466**, L9–L12 (1996).
- “A Circumstellar Shell Model for the Cassiopeia A Supernova Remnant,” K. J. Borkowski, A. E. Szymkowiak, J. M. Blondin, and C. L. Sarazin, *Astrophysical Journal*, **466**, 866–870 (1996).
- \* “X-Ray Emission from Elliptical and cD Galaxies,” C. L. Sarazin, in *The Second Stromlo Symposium — The Nature of Elliptical Galaxies*, ed. by M. Arnaboldi, G. Da Costa, and P. Saha, (Canberra: Australia Univ. Press), 63–64 (1996).

- “U-band Polarimetry of the Radio-Aligned Optical Lobes in the Abell 1795 Cluster Central Galaxy,” B. R. McNamara, B. T. Jannuzi, R. Elston, C. L. Sarazin, and M. W. Wise, *Astrophysical Journal*, **469**, 66–72 (1996).
- “X-Ray Evidence for the Interaction of the Giant Elliptical Galaxy NGC 4472 with its Virgo Cluster Environment,” J. A. Irwin and C. L. Sarazin, *Astrophysical Journal*, **471**, 683–693 (1996).
- “Heating of the Intracluster Gas in the Triangulum Australis Cluster,” M. Markevitch, C. L. Sarazin, and J. A. Irwin, *Astrophysical Journal Letters*, **472**, L17–L20 (1996).
- \* “ROSAT HRI X-ray Observations of the Elliptical Galaxy NGC 4636,” C. Cox, and C. L. Sarazin, *Bulletin American Astronomical Society*, **189**, 3711 (1996).
- \* “X-ray Radial Color Profiles of a Large Sample of Elliptical Galaxies Observed with ROSAT,” J. A. Irwin, and C. L. Sarazin, *Bulletin American Astronomical Society*, **189**, 9002 (1996).
- “Far UV Absorption Lines in the Remnant of SN 1006,” C.-C. Wu, D. M. Crenshaw, A. J. Hamilton, R. A. Fesen, M. Leventhal, and C. L. Sarazin, *Astrophysical Journal*, **477**, L53–56 (1997).
- “ROSAT X-Ray Observations of the Cooling Flow Cluster A2597,” C. L. Sarazin and B. R. McNamara, *Astrophysical Journal*, **480**, 203–215 (1997).
- \* “ASCA Atlas of the Cluster Temperatures,” M. L. Markevitch, C. L. Sarazin, and M. J. Henriksen, in *X-ray Imaging and Spectroscopy of Cosmic Hot Plasmas*, ed. by F. Makino and K. Mitsuda (Tokyo: Universal Academy Press), 91–94 (1997).
- \* “Internal Absorption in Cluster Cooling Flows,” M. W. Wise and C. L. Sarazin, in *X-ray Imaging and Spectroscopy of Cosmic Hot Plasmas*, ed. by F. Makino and K. Mitsuda (Tokyo: Universal Academy Press), 133–134 (1997).
- “Interpretation of UV Absorption Lines in SN1006,” A. J. Hamilton, R. A. Fesen, C.-C. Wu, D. M. Crenshaw, and C. L. Sarazin, *Astrophysical Journal*, **481**, 838–856 (1997).
- \* “The Search for Molecular Gas in the H I Cloud between UGC 7636 and the Cooling Flow Galaxy NGC 4472,” J. A. Irwin, D. T. Frayer, and C. L. Sarazin, in *Galactic and Cluster Cooling Flows*, ed. by N. Soker, (San Francisco: Astr. Soc. Pacific Press), 75–81 (1997).
- \* “Cluster Cooling Flows: Recent Results and Outstanding Questions,” C. L. Sarazin, in *Galactic and Cluster Cooling Flows*, ed. by N. Soker (San Francisco: Astr. Soc. Pacific Press), 172–181 (1997).
- \* “ASCA and ROSAT Observations of Abell 644,” F. Bauer and C. L. Sarazin, in *ASCA Cherry Blossom Workshop*, ed. N. White, (Washington: NASA/GSFC), 18 (1997).
- \* “A Search for UV Absorption in the Intracluster Medium of Abell 1030,” A. M. Koekemoer, C. P. O’Dea, S. A. Baum, C. L. Sarazin, and F. Owen, *Bulletin American Astronomical Society*, **190**, 305 (1997).

- “X-Ray Emission from Elliptical Galaxies,” C. L. Sarazin, in *The Second Stromlo Symposium: The Nature of Elliptical Galaxies*, ed. by M. Arnaboldi, G. Da Costa, and P. Saha (San Francisco: Astr. Soc. Pacific Press), 375–385 (1997).
- “High Resolution X-ray Spectra of Cluster Cooling Flows,” C. L. Sarazin, in *Proceedings of the Workshop on High Throughput X-ray Spectroscopy*, ed. by H. Tananbaum, N. White, and P. Sullivan (Cambridge: Smithsonian Astrophysical Observatory), 181–190 (1997).
- “Is There Molecular Gas in the H I Cloud Between NGC 4472 and UGC 7636?,” J. A. Irwin, D. T. Frayer, and C. L. Sarazin, *Astronomical Journal*, **113**, 1580–1584 (1997).
- \* “ASCA Temperature Maps for a Complete Sample of Nearby Clusters,” M. Markevitch, W. Forman, C. Sarazin, and A. Vikhlinin, in *Clusters of Galaxies at Different Redshifts*, ed. by A. Klypin (Las Cruces: New Mexico State Univ.), 88 (1997).
- \* “Cooling Flows and the Dynamics of Clusters,” C. L. Sarazin, in *Clusters of Galaxies at Different Redshifts*, ed. by A. Klypin (Las Cruces: New Mexico State Univ.), 95 (1997).
- \* “HST UV Spectroscopy of the ICM in A1030,” C. P. O’Dea, A. M. Koekemoer, S. A. Baum, C. L. Sarazin, and F. Owen, in *Clusters of Galaxies at Different Redshifts*, ed. by A. Klypin (Las Cruces: New Mexico State Univ.), 98 (1997).
- \* “Extreme Ultraviolet Emission from Clusters of Galaxies: Inverse Compton Radiation from a Relic Population of Cosmic Ray Electrons?,” C. L. Sarazin, *Proceedings of the Ringberg Workshop on Clusters of Galaxies as Cosmological Probes*, ed. by H. Böhringer (Munich: MPE), 1–2 (1997).
- \* “Low-Mass X-ray Binaries and their Importance to the X-ray Emission from the X-ray Faintest Early-Type Galaxies,” J. A. Irwin, J. N. Bregman, and C. L. Sarazin, *Bulletin American Astronomical Society*, **191**, 1292 (1997).
- \* “The Emission-Line Nebula and Radio Source in the Cooling-Flow Cluster Abell 2597,” A. M. Koekemoer, C. P. O’Dea, S. A. Baum, M. Donahue, M. Voit, J. Gallimore, B. McNamara, C. Sarazin, and M. Wise, *Bulletin American Astronomical Society*, **191**, 1301 (1997).
- \* “U-Band Polarimetry of the Radio-Aligned Optical Continuum in the Abell 2597 Cluster Central Galaxy,” B. R. McNamara, B. T. Jannuzi, C. L. Sarazin, M. W. Wise, and R. Elston, *Bulletin American Astronomical Society*, **191**, 1381 (1997).
- “Low Mass X-ray Binaries As the Source of the Very Soft X-ray Emission in the X-ray Faintest Early-Type Galaxies,” Irwin, J. A., & Sarazin, C. L. 1998, *Astrophysical Journal Letters*, **494**, L33–L36
- “Extreme Ultraviolet Emission from Clusters of Galaxies: Inverse Compton Radiation from a Relic Population of Cosmic Ray Electrons?,” Sarazin, C. L., & Lieu, R. 1998, *Astrophysical Journal Letters*, **494**, L177–L180
- “A High Resolution ROSAT X-Ray Study of Abell 4059,” Huang, Z., & Sarazin, C. L. 1998, *Astrophysical Journal*, **496**, 728–736
- “X-ray Spectral Properties of the Cluster Abell 2029,” Sarazin, C. L., Wise, M. W., & Markevitch, M. L. 1998, *Astrophysical Journal*, **498**, 606–618

- “ROSAT X-ray Colors and Emission Mechanisms in Early-Type Galaxies,” Irwin, J. A., & Sarazin, C. L. 1998, *Astrophysical Journal*, **499**, 650–669
- “Excitation of the 3.071 mm Hyperfine Line in Li-like  $^{57}\text{Fe}$  in Astrophysical Plasmas,” D’Cruz, N. L., Sarazin, C. L., & Dubau, J. 1998, *Astrophysical Journal*, **501**, 414–424
- \* “Interactions Between the Radio Source and Surrounding Gas at the Center of the Cooling-Flow Cluster Abell 2597,” Koekemoer, A. M., O’Dea, C. P., Baum, S. A., Donahue, M., Voit, M., Sarazin, C., McNamara, B., Gallimore, J., & Wise, M. 1998, *Bulletin American Astronomical Society*, **192**, 833
- “The Temperature Structure of 26 Nearby Clusters Observed with ASCA: Similarity of Temperature Profiles,” Markevitch, M., Forman, W. R., Sarazin, C. L., & Vikhlinin, A. 1998, *Astrophysical Journal*, **503**, 77–96
- “A Study of UV Absorption in the Intracluster Medium of Abell 1030,” Koekemoer, A. M., O’Dea, C. P., Baum, S. A., Sarazin, C. L., Owen, F. N., & Ledlow, M. J. 1998, *Astrophysical Journal*, **508**, 608–620
- “X-ray Properties of B2 1028+313: A Quasar at the Center of the Abell Cluster A1030,” Sarazin, C. L., Koekemoer, A. M., O’Dea, C. P., Baum, S. A., Owen, F. N., & Wise, M. W. 1999, *Astrophysical Journal*, **510**, 90–103
- \* “The Detection of Off-Center Cluster Mergers,” Ricker, P. M., & Sarazin, C. L. 1999, *Bulletin American Astronomical Society*, **30**, 4605
- “An Alignment Effect in FR I Radio Galaxies: U-Band Polarimetry of the Abell 2597 Cluster Central Galaxy,” McNamara, B. R., Jannuzi, B. T., Sarazin, C. L., Elston, R., & Wise, M. W. 1999, *Astrophysical Journal*, **518**, 167–176
- “The Energy Spectrum of Primary Cosmic Ray Electrons in Clusters of Galaxies and Inverse Compton Emission,” Sarazin, C. L. 1999, *Astrophysical Journal*, **520**, 529–547
- “Physics of Merging Clusters Cygnus A, A3667, and A2065,” Markevitch, M., Sarazin, C., & Vikhlinin, A. 1999, *Astrophysical Journal*, **521**, 526–530
- “Models for the Relativistic Electron Population and Nonthermal Emission in Clusters of Galaxies,” Sarazin, C. L. 1999, *Diffuse Thermal and Relativistic Plasma in Galaxy Clusters*, ed. H. Böhringer, L. Feretti, & P. Schuecker (Garching: MPE Report 271), 185–190
- \* “Thermal and Nonthermal Effects of Merger Shocks on Clusters of Galaxies,” Sarazin, C. L. 1999, in *Large Scale Structure in the X-ray Universe*. edited by M. Plionis & I. Georgantopoulos (Athens: National Observatory Athens), 7
- “ROSAT HRI X-ray Observations of the Open Globular Cluster NGC 288,” Sarazin, C. L., Irwin, J. A., Rood, R. T., Ferraro, F. R., & Paltrinieri, B. 1999, *Astrophysical Journal*, **524**, 220–225
- “The Extended Blue Continuum and Line Emission around the Central Radio Galaxy in Abell 2597,” Koekemoer, A. M., O’Dea, C. P., Sarazin, C. L., McNamara, B. R., Donahue, M., Voit, G. M., Baum, S. A., & Gallimore, J. F. 1999, *Astrophysical Journal*, **525**, 621–637

- “Mass Profiles of the Typical Relaxed Galaxy Clusters A2199 and A496,” Markevitch, M., Vikhlinin, A., Forman, W. R., & Sarazin, C. L. 1999, *Astrophysical Journal*, **527**, 545–553
- \* “Radio Halos in Clusters of Galaxies from the WENSS Survey,” Kempner, J. C., & Sarazin, C. L. 1999, *Bulletin American Astronomical Society*, **31**, 1390
- “X-ray Properties of the Abell 644 Cluster of Galaxies,” Bauer, F., & Sarazin, C. L. 2000, *Astrophysical Journal*, **530**, 222–232.
- “Limits on the Diffuse Radio and Hard X-ray Emission of Abell 2199,” Kempner, J. C., & Sarazin, C. L. 2000, *Astrophysical Journal*, **530**, 282–285.
- “Nonthermal Bremsstrahlung and Hard X-ray Emission from Clusters of Galaxies,” Sarazin, C. L., & Kempner, J. C. 2000, *Astrophysical Journal*, **533**, 73–83.
- “Thermal and Nonthermal Effects of Merger Shocks in Clusters of Galaxies,” Sarazin, C. L. 2000, in *Large-Scale Structure in the X-ray Universe*. edited by M. Plionis & I. Georgantopoulos (Biarritz: Atlantisciences), 81–84 (astro-ph/9911439)
- \* “Chandra X-ray Observations of the Hydra A Cluster: An Interaction between the Radio Source and the Cluster’s X-ray-Emitting Atmosphere,” McNamara, B. R., Wise, M., Nulsen, P. E. J., David, L. P., Sarazin, C. L., Bautz, M., Forman, W. R. Jones, C., & Harris D. E. 2000, *Bulletin American Astronomical Society*, **32**, 877
- “Multiwavelength Observations of the Second Largest Known FR II Radio Galaxy, NVSS 2146+82,” Palma, C., Bauer, F. E., Cotton, W. D., Bridle, A. H., Majewski, S. R., & Sarazin, C. L. 2000, *Astronomical Journal*, **119**, 2068–2084
- “Chandra X-ray Observations of the Hydra A Cluster: An Interaction between the Radio Source and the X-ray-Emitting Gas,” McNamara, B. R., Wise, M., Nulsen, P. E. J., David, L. P., Sarazin, C. L., Bautz, M., Markevitch, M., Forman, W. R. Jones, C., & Harris D. E. 2000, *Astrophysical Journal Letters*, **534**, L135–L138
- “Time-Dependence of the Mass Accretion Rate in Cluster Cooling Flows,” Lufkin, E. A., Sarazin, C. L., & White, R. E. III 2000, *Astrophysical Journal*, **542**, 94–105
- “The X-ray Faint Early-Type Galaxy NGC 4697,” Irwin, J. A., Sarazin, C. L., & Bregman, J. N. 2000, *Astrophysical Journal*, **544**, 293–301
- \* “Chandra Imagery of Cluster Cooling Flows,” McNamara, B. R., Wise, M., David, L. P., Nulsen, P. E. J., & Sarazin, C. L. 2000, *Bulletin American Astronomical Society*, **32**, 1201.
- \* “Using Chandra to Resolve the X-ray Emission in the Sa Galaxy NGC 1291,” Irwin, J. A., Sarazin, C. L., & Bregman, J. N. 2000, *Bulletin American Astronomical Society*, **32**, 1203
- \* “Resolving the Mystery of X-ray Faint Elliptical Galaxies: Chandra X-ray Observations of NGC 4697,” Sarazin, C. L., Irwin, J. A., & Bregman, J. N. 2000, *Bulletin American Astronomical Society*, **32**, 1212

- “Resolving the Mystery of X-ray Faint Elliptical Galaxies: Chandra X-ray Observations of NGC 4697,” Sarazin, C. L., Irwin, J. A., & Bregman, J. N. 2000, *Astrophysical Journal Letters*, **544**, L101–L105
- \* “Chandra Observations of Subcluster Mergers, Radio Relics, and the Cooling Flow – Radio Source Interactions in Abell 85,” Kempner, J. C., Sarazin, C. L., & Ricker, P. M. 2000, *Bulletin American Astronomical Society*, **32**, 1579
- \* “Chandra X-ray Observations of the S0 Galaxy NGC 1553,” Blanton, E. L., Sarazin, C. L., & Irwin, J. A. 2000, *Bulletin American Astronomical Society*, **32**, 1592–1593
- \* “Chandra Observations of the S0/Sa Galaxy NGC 1291,” Irwin, J. A., Bregman, J. N., & Sarazin, C. L. 2000, *Bulletin American Astronomical Society*, **32**, 1593
- “Shocks and Nonthermal Processes in Clusters,” Sarazin, C. L. 2001, in *Constructing the Universe with Clusters of Galaxies*, edited by F. Durret & D. Gerbal, astro-ph/0009094, <http://www.iap.fr/Conferences/Colloque/coll2000/contributions/textes.pdf/sarazin.pdf>, 34–42
- “New Perspectives on Cooling Flows & Cluster Radio Sources,” McNamara, B. R., Wise, M. W., David, L. P., Nulsen, P. E. J., & Sarazin, C. L. 2001, in *Constructing the Universe with Clusters of Galaxies*, edited by F. Durret & D. Gerbal, astro-ph/0012331, <http://www.iap.fr/Conferences/Colloque/coll2000/contributions/textes.pdf/mcnamara.pdf>, 89–97
- “The Contribution of EUV from Clusters of Galaxies to the Cosmic Ionizing Background,” Randall, S. W., & Sarazin, C. L. 2001, *Astrophysical Journal*, **548**, 60–67
- “Radio Halo and Relic Candidates from the Westerbork Northern Sky Survey,” Kempner, J. C., & Sarazin, C. L. 2001, *Astrophysical Journal*, **548**, 639–651
- “Diffuse Gas and LMXBs in the *Chandra* Observation of the S0 Galaxy NGC 1553,” Blanton, E. L., Sarazin, C. L., & Irwin, J. A. 2001, *Astrophysical Journal*, **552**, 106–119
- “Chandra X-ray Observations of the X-ray Faint Elliptical Galaxy NGC 4697,” Sarazin, C. L., Irwin, J. A., & Bregman, J. N. 2001, *Astrophysical Journal*, **556**, 533–555
- \* “The Components of the X-ray Emission from a Variety of Early-type Systems,” Irwin, J., Sarazin, C. & Bregman, J., 2001, in *The High-Energy Universe at Sharp Focus: A Symposium of Chandra Science*, ed. by E. Schlegel & S. Vrtilek, 19
- \* “Dynamics of the Multiple Merger Cluster of Galaxies Abell 85,” Kempner, J. C., Sarazin, C. L., & Ricker, P. M. 2001, in *The High-Energy Universe at Sharp Focus: A Symposium of Chandra Science*, edited by E. Schlegel & S. Vrtilek, 27
- “Chandra Observation of the Radio Source / X-ray Gas Interaction in the Cooling Flow Cluster Abell 2052,” Blanton, E. L., Sarazin, C. L., McNamara, B. R., & Wise, M. W. 2001, *Astrophysical Journal Letters*, **558**, L15–L19
- “Off-Axis Cluster Mergers: Effects of a Strongly Peaked Dark Matter Profile,” Ricker, P. M., & Sarazin, C. L. 2001, *Astrophysical Journal*, **561**, 621–644



- “Discovery of Ghost Cavities in Abell 2597’s X-ray Atmosphere,” McNamara, B. R., Wise, M. W., Nulsen, P. E. J., David, L. P., Carilli, C. L., Sarazin, C. L., O’Dea, C. P., Houck, J., Donahue, M., Baum, S., Voit, M., O’Connell, R. W., & Koekemoer, A. 2001, *Astrophysical Journal*, **562**, L149–L153
- \* “Chandra Observations of the Radio Source / X-ray Gas Interaction in the Cooling Flow Cluster Abell 2052,” Blanton, E. L., Sarazin, C. L., McNamara, B. R., & Wise, M. W. 2001, in *Two Years of Science with Chandra*, 97
- \* “The X-ray Emitting Components Within a Variety of Early-type Systems,” Irwin, J. A., Bregman, J. N., & Sarazin, C. L. 2001, in *Two Years of Science with Chandra*, 113
- \* “Chandra Observations of the Low Mass X-ray Binary Populations of X-ray Faint Elliptical and S0 Galaxies,” Sarazin, C. L., Blanton, E. L., Irwin, J. A., & Bregman, J. N. 2001, in *Two Years of Science with Chandra*, 140
- \* “Chandra Observations and the Dynamics of the Multiple Merger Cluster of Galaxies Abell 85,” Kempner, J. C., Sarazin, C. L., & Ricker, P. M. 2001, in *Two Years of Science with Chandra*, 145
- \* “Chandra Observation of Diffuse Gas and LMXBs in the Elliptical Galaxy NGC 4649 (M60),” Randall, S. W., Sarazin, C. L., Irwin, J. A., Bregman, J. N., Wise, M. W., & McNamara, B. R. 2001, in *Two Years of Science with Chandra*, 158
- \* “Chandra Observations of the Merger, Radio Relic, and the Disruption of the Cooling Flow in Abell 133,” Fujita, Y., & Sarazin, C. L. 2001, in *Two Years of Science with Chandra*, 163
- \* “Software Package for Analysis of Thermal X-Ray Spectra of Supernova Remnants,” Borkowski, K. J., Dorman, B., Hughes, J. P., Sarazin, C. L., & Smith, R. K 2001, in *Two Years of Science with Chandra*, 168
- \* “Chandra Observations of the Massive Cluster MS2137.3-2353,” Wise, M. W., McNamara, B. R., Houck, J. C., Hicks, A. K., Davis, D. S., & Sarazin C. L. 2001, in *Two Years of Science with Chandra*, 217
- \* “Merger Shocks and Nonthermal Processes in Clusters of Galaxies,” Sarazin, C. L. 2001, in *Proceedings of XXI Moriond Conference: Galaxy Clusters and the High Redshift Universe Observed in X-ray*, edited by D. Neumann, F. Durret, & J. Tran Thanh Van, [http://www-dapnia.cea.fr/Conferences/Morion\\_astro\\_2001/abs07/sarazin.html](http://www-dapnia.cea.fr/Conferences/Morion_astro_2001/abs07/sarazin.html), 1–14
- “Nonthermal Emission from Accreting and Merging Clusters of Galaxies,” Fujita, Y., & Sarazin, C. L. 2001, *Astrophysical Journal*, **563**, 660–672.
- \* “The X-ray Binary Populations of Early-type Galaxies,” Irwin, J. A., Bregman, J. N., & Sarazin, C. L. 2001, *Bulletin American Astronomical Society*, **33**, 1339
- \* “Chandra Observations of the Disruption of the Cool Core in Abell 133,” Fujita, Y., & Sarazin, C. L. 2001, *Bulletin American Astronomical Society*, **33**, 1459

- \* “Gas Stripping, Turbulence, and Wake Formation in Cluster Mergers,” Ricker, P. M., Sarazin, C. L., Kempner, J. C., Calder, A. C., Dursi, L. J., Fryxell, B., Lamb, D. Q., Olson, K., Rosner, R., Timmes, F. X., Truran, J. W., Tufo, H., & Zingale, M. 2001, *Bulletin American Astronomical Society*, **33**, 1460
- \* “Software Package for Analysis of Thermal X-Ray Spectra of Supernova Remnants,” Borkowski, K. J., Arnaud, K., Dorman, B., Hughes, J. P., Sarazin, C. L., & Smith, R. K. 2001, *Bulletin American Astronomical Society*, **33**, 1492
- \* “INTEGRAL Observations of Galaxy Clusters,” Goldoni, P., Goldwurm, A., Laurent, P., Cassé, M., Paul, J., & Sarazin, C. 2001, in *Exploring the Gamma-Ray Universe: Proceedings of the 4<sup>th</sup> INTEGRAL Workshop*, ed. A. Gimenez, V. Reglero, & C. Winkler (Alicante, Spain: ESA SP-459), 165–168
- \* “Chandra Observation of the X-ray Faint Elliptical Galaxy NGC 4697,” Irwin, J. A., & Sarazin, C. L. 2001, in *X-ray Astronomy 2000*, ed. R. Giacconi, S. Serio, & L. Stella (San Francisco: ASP), 307–312
- \* “Off-Axis Cluster Mergers,” Ricker, P. M., & Sarazin, C. L. 2001, in 20th Texas Symposium on Relativistic Astrophysics, ed. J. C. Wheeler & H. Martel (Melville, NY: AIP), 152–156
- \* “Chandra Observations of Cooling Flow Clusters with Central Radio Sources,” Blanton, E. L., Sarazin, C. L., McNamara, B. R., & Wise, M. W. 2002, *Bulletin American Astronomical Society*, **34**, 573
- “Untangling the X-ray Emission From the Sa Galaxy NGC 1291 With Chandra,” Irwin, J. A., Bregman, J. N., & Sarazin, C. L. 2002, *Astrophysical Journal*, **570**, 152–164
- “X-ray Binaries and Globular Clusters in Elliptical Galaxies,” White, R. E. III, Sarazin, C. L., & Kulkarni, S. R. 2002, *Astrophysical Journal Letters*, **571**, L23–L26
- “Interactions Between the Abell 2597 Central Radio Source and Dense Gas in its Host Galaxy,” Koekemoer, A. M., O’Dea, C. P., Sarazin, C. L., McNamara, B. R., Donahue, M., Voit, M., Baum, S. A., & Gallimore, J. F. 2002, *New Astronomy Reviews*, **46**, 149–153
- “The Physics of Cluster Mergers,” Sarazin, C. L. 2002, in *Merging Processes in Galaxy Clusters*, edited by L. Feretti, I. M. Gioia, and G. Giovannini (Dordrecht: Kluwer), 1–38
- \* “Dynamics of the Multiple Merger Cluster of Galaxies Abell 85,” Kempner, J. C., Sarazin, C. L., & Ricker, P. M. 2002, in *X-rays at Sharp Focus: Chandra Science Symposium*, ed. E. M. Schlegel & S. Vrtilik (San Francisco: ASP), 157
- \* “The Components of the X-ray Emission from a Variety of Early-type Systems,” Irwin, J., Bregman, J., & Sarazin, C. 2002, in *X-rays at Sharp Focus: Chandra Science Symposium*, edited by S. Vrtilik, E. M. Schlegel, & L. Kuhl (San Francisco: ASP), 383
- \* “Diffuse EUV Emission from Clusters of Galaxies,” Sarazin, C. L. 2002, *Bulletin American Astronomical Society*, **34**, 728
- \* “X-ray Emission from Normal Elliptical Galaxies,” Sarazin, C. L. 2002, *Bulletin American Astronomical Society*, **34**, 784

- “Hot Bubbles in Cooling Flow Clusters,” Soker, N., Blanton, E. L., & Sarazin, C. L. 2002, *Astrophysical Journal*, **573**, 533–541
- \* “The Spectral Properties of LMXBs in Early-type Galaxies,” Irwin, J., Athey, A., Bregman, J., & Sarazin, C. L. 2002, *Bulletin American Physical Society*, N17.108
- “Chandra Observations of the Disruption of the Cool Core in Abell 133,” Fujita, Y., Sarazin, C. L., Kempner, J. C., Andernach, H., Ehle, M., Roy, A. L., Rudnick, L., & Slee, O. B. 2002, *Astrophysical Journal*, **575**, 764–778
- “Analytical Approach to the Mass Distribution Function of Subhalos and Cold Fronts in Galaxy Clusters,” Fujita, Y., Sarazin, C. L., Nagashima, M., & Yano, T. 2002, *Astrophysical Journal*, **577**, 11-21
- “The Effect of Merger Boosts on the Luminosity, Temperature, and Inferred Mass Functions of Clusters of Galaxies,” Randall, S. W., Sarazin, C. L., & Ricker, P. M. 2002, *Astrophysical Journal*, **577**, 579–594
- “Chandra Observation of Abell 85: Merger of the South Subcluster,” Kempner, J. C., Sarazin, C. L., & Ricker, P. M. 2002, *Astrophysical Journal*, **579**, 236–246
- \* “Cosmic Structure Traced by Precision Measurements of the X-ray Brightest Galaxy Clusters in the Sky,” Reiprich, T. H., Sarazin, C. L., & Böhringer, H. 2002, in *The Emergence of Cosmic Structure*, 29
- \* “Hot Plasma in Clusters of Galaxies, the Largest Objects in the Universe,” Sarazin, C. L. 2002, *Bulletin of the American Physical Society*, **47**, 286
- \* “Chandra Observation of the Radio Source / ICM Interaction in the Cooling Flow Cluster Abell 262,” Blanton, E. L., Sarazin, C. L., & McNamara, B. R. 2002, *Bulletin American Astronomical Society*, **34**, 1094
- \* “The Effects of Mergers on Thermal and Non-thermal Emission from Clusters of Galaxies as Studied Using Merger Trees,” Randall, S. W., Sarazin, C. L., & Ricker P. M. 2002, *Bulletin American Astronomical Society*, **34**, 1218
- “Nonthermal Emissions from Particles Accelerated by Turbulence in Clusters of Galaxies,” Fujita, Y., Takizawa, M., & Sarazin, C. L. 2003, *Astrophysical Journal*, **584**, 190–202
- “Chandra Observation of the Cooling Flow Cluster Abell 2052,” Blanton, E. L., Sarazin, C. L., & McNamara, B. R. 2003, *Astrophysical Journal*, 585, 227–243
- \* “Chandra Observations of the Central Region of Abell 3112,” Takizawa, M., Sarazin, C. L., Blanton, E. L., & Taylor, G. 2003, in *Workshop on Galaxies and Clusters of Galaxies*, ed. T. Ohashi & N. Y. Yamasaki (Tokyo: Japan. Soc. Prom. Sci.), 57–60
- \* “Nonthermal Emissions from Particles Accelerated by Turbulence in Clusters of Galaxies,” Fujita, Y., Takizawa, M., & Sarazin, C. L. 2003, in *Workshop on Galaxies and Clusters of Galaxies*, ed. T. Ohashi & N. Y. Yamasaki (Tokyo: Japan. Soc. Prom. Sci.), 75–78

- \* “Analytical Approach to the Mass Distribution Function of Subhalos and Cold Fronts in Galaxy Clusters,” Fujita, Y., Sarazin, C. L., Nagashima, M., & Yano, T. 2003, in Proceedings of the IAU 8th Asian-Pacific Regional Meeting, Volume II, ed. Ikeuchi, S. Hearnshaw, J., & . Hanawa, T. (San Francisco: ASP), 249–250
  
- “Hot Plasma in Clusters of Galaxies, the Largest Objects in the Universe,” Sarazin, C. L. 2003, *Physics of Plasmas*, **10**, 1992–1998
  
- \* “Cosmic Structure Traced by Precision Measurements of the X-ray Brightest Galaxy Clusters in the Sky,” Reiprich, T. H., Sarazin, C. L., Kempner, J. C., Skrutskie, M. F., Sivakoff, G. R., Böhringer, H., & Retzlaff, J. 2003, in *The Emergence of Cosmic Structure*, ed. S. S. Holt & C. Reynolds (New York: AIP Conf. Proc.), 319–322 (astro-ph/0212399)
  
- \* “Galaxy Clusters and Large Scale Structure,” Reiprich, T. H., Sarazin, C., Skrutskie, M., Sivakoff, G., Chatzikos, M., Böhringer, H., & Retzlaff, J. 2003, International Astronomical Union, S216, 5
  
- \* “Galaxy Clusters and Cosmology,” Reiprich, T. H., Sarazin, C., Kempner, J., & Böhringer, H. 2003, International Astronomical Union, JD10, 3
  
- \* “Mergers and Non-Thermal Processes in Clusters,” Sarazin, C. L. 2003, International Astronomical Union, JD10, 36
  
- “Chandra Observation of the Merging Cluster Abell 2034,” Kempner, J. C., Sarazin, C. L., & Markevitch, M. 2003, *Astrophysical Journal*, **593**, 291–300
  
- \* “Radio and X-ray Interactions in the Core of Abell 2029,” Clarke, T. E., Blanton, E. L., & Sarazin, C. L. 2003, *Bulletin American Astronomical Society*, **35**, 619
  
- “Chandra Observations of the Central Region of Abell 3112,” Takizawa, M., Sarazin, C. L., Blanton, E. L., & Taylor, G. 2003, *Astrophysical Journal*, **595**, 142–150
  
- “Low Mass X-ray Binaries and Globular Clusters in Early-Type Galaxies,” Sarazin, C. L., Kundu, A., Irwin, J. A., Sivakoff, G. R., Blanton, E. L., & Randall, S. W. 2003, *Astrophysical Journal*, **595**, 743–759
  
- \* “Cooling Cluster Cores and Cosmology,” Reiprich, T. H., & Sarazin, C. L. 2003, in The Riddle of Cooling Flows in Galaxies and Clusters of Galaxies, 1
  
- \* “Chandra Observation of the Central Region of Abell 3112,” Takizawa, M., Sarazin, C. L., Blanton, E. L., & Taylor, G. B. 2003, in The Riddle of Cooling Flows in Galaxies and Clusters of Galaxies, 3
  
- \* “Radio and X-Ray Interactions in the Core of Abell 2029,” Clarke, T. E., Blanton, E. L., & Sarazin, C. L. 2003, in The Riddle of Cooling Flows in Galaxies and Clusters of Galaxies, 11
  
- \* “The ICM in the Moderate Cooling Flow Cluster Abell 1991,” Sharma, M., McNamara, B. R., Wise, M. W., Sarazin, C. L., Blanton, E. L., & David, L. P. 2003, in The Riddle of Cooling Flows in Galaxies and Clusters of Galaxies, 14

- \* “Chandra Observation of the Merging Cluster Abell 2065: Survival of the Cooling Cores?,” Chatzikos, M., Sarazin, C. L., Kempner, J. C., & Markevitch, M. 2003, in *The Riddle of Cooling Flows in Galaxies and Clusters of Galaxies*, 25
  
- “Chandra Observations of Low Mass X-ray Binaries and Diffuse Gas in the Early-Type Galaxies NGC 4365 and NGC 4382 (M85),” Sivakoff, G. R., Sarazin, C. L., & Irwin, J. A. 2003, *Astrophysical Journal*, **599**, 218–236
  
- \* “Chandra Observation of the Cooling Flow in Abell 262,” Blanton, E. L., Sarazin, C. L., McNamara, B. R., & Clarke, T. E. 2003, *Bulletin American Astronomical Society*, **35**, 1282
  
- \* “The Future of EUV Astronomy,” Kowalski, M., Barstow, M., Cassinelli, J., Cruddace, R., Doschek, G., Dupree, A., Guinan, E., Howell, S., Linsky, J., Livio, M., Malina, R., Sarazin, C., Siegmund, O., Stern, R., Walter, R., Werner, K., Wood, K., Welch, B., & Wilkinson, E. 2003, [http://www.astro.virginia.edu/~cls7i/papers/Future\\_of\\_EUV.ps.gz](http://www.astro.virginia.edu/~cls7i/papers/Future_of_EUV.ps.gz)
  
- \* “Chandra Observations of the Disruption of the Cool Core in Abell 133,” Fujita, Y., Sarazin, C. L., Kempner, J. C., Rudnick, L., Slee, O. B., Roy, A. L., Andernach, H., & Ehle M. 2003, in *Matter and Energy in Clusters of Galaxies*, ed. S. Bowyer and C.-Y. Hwang (San Francisco: ASP), 477–481
  
- \* “Radio and X-Ray Interactions in the Core of Abell 2029,” Clarke, T. E., Blanton, E. L., & Sarazin, C. L. 2004, in *The Riddle of Cooling Flows in Galaxies and Clusters of Galaxies*, ed. T. H. Reiprich, J. C. Kempner, & N. Soker (Charlottesville: U.Va.), 19–21, <http://www.astro.virginia.edu/coolflow//proc.php?regID=101>
  
- \* “Chandra Observations of the Central Region of Abell 3112,” Takizawa, M., Sarazin, C. L., Blanton, E. L., & Taylor, G. 2004, in *The Riddle of Cooling Flows in Galaxies and Clusters of Galaxies*, ed. T. H. Reiprich, J. C. Kempner, & N. Soker (Charlottesville: U.Va.), 99–106, <http://www.astro.virginia.edu/coolflow/proc.php?regID=113>
  
- \* “Cooling of X-ray Emitting Gas by Heat Conduction in the Center of Cooling Flow Clusters,” Soker, N., Blanton, E. L., & Sarazin, C. L. 2004, in *The Riddle of Cooling Flows in Galaxies and Clusters of Galaxies*, ed. T. H. Reiprich, J. C. Kempner, & N. Soker (Charlottesville: U.Va.), 269–276, <http://www.astro.virginia.edu/coolflow/proc.php?regID=103>
  
- \* “Cooling Cluster Cores and Cosmology,” Reiprich, T. H., & Sarazin, C. L. 2004, in *The Riddle of Cooling Flows in Galaxies and Clusters of Galaxies*, ed. T. H. Reiprich, J. C. Kempner, & N. Soker (Charlottesville: U.Va.), 317–324, <http://www.astro.virginia.edu/coolflow//proc.php?regID=101>
  
- “Chandra Observation of Diffuse Gas and LMXBs in the Elliptical Galaxy NGC 4649 (M60),” Randall, S. W., Sarazin, C. L., & Irwin, J. A. 2004, *Astrophysical Journal*, **600**, 729–742
  
- “Soft X-ray Absorption Due to a Foreground Edge-On Spiral Galaxy Toward the Core of Abell 2029,” Clarke, T. E., Uson, J. M., Sarazin, C. L., & Blanton, E. L. 2004, *Astrophysical Journal*, **601**, 798–804
  
- \* “Radio Sources in Cooling Flow Clusters: A Solution to the Problem of the Missing Cool Gas?,” Blanton, E. L., Sarazin, C. L., Clarke, T. E., & McNamara, B. R. 2004, in *Four Years of Chandra Observations: A Tribute to Riccardo Giacconi*, ed. M. C. Weisskopf, 10-3 [http://wwwastro.msfc.nasa.gov/xray/Ch4/Ch4\\_10-03\\_Blanton.pdf](http://wwwastro.msfc.nasa.gov/xray/Ch4/Ch4_10-03_Blanton.pdf)

- “XMM-Newton Observation of the Merging Galaxy Cluster Abell 1644,” Reiprich, T. H., Sarazin, C. L., Kempner, J. C., & Tittley, E. 2004, *Astrophysical Journal*, **608**, 179–188
- “Cooling of X-ray Emitting Gas by Heat Conduction in the Center of Cooling Flow Clusters,” Soker, N., Blanton, E. L., & Sarazin, C. L. 2004, *Astronomy and Astrophysics*, **422**, 445–452
- \* “The Radio/X-ray Connection in Abell 2029,” Clarke, T. E., Blanton, E. L., & Sarazin, C. L. 2004, in X-Ray and Radio Connections, ed. K. Dyer & L. Sjouwerman, 7.8, 59 <http://www.aoc.nrao.edu/events/xraydio/cummabs.shtml>
- \* “Mergers and Non-Thermal Processes in Clusters,” Sarazin, C. L. 2004, in X-Ray and Radio Connections, ed. K. Dyer & L. Sjouwerman, 8.1, 82 <http://www.aoc.nrao.edu/events/xraydio/cummabs.shtml>
- “Chandra Observation of the Central Region of the Cooling Flow Cluster Abell 262: A Radio Source that is a Shadow of its Former Self?”, Blanton, E. L., Sarazin, C. L., McNamara, B. R., & Clarke, T. E. 2004, *Astrophysical Journal*, **612**, 817–824
- \* “Deep Chandra Observations of NGC 4697: Initial Results,” Sivakoff, G. R., Côté, P., Jordán, A., & Sarazin, C. L. 2004, *Bulletin American Astronomical Society*, **36**, 937
- “A Chandra X-Ray Observation of Abell 1991: The Late Stages of Infall?,” Sharma, M., McNamara, B. R., Nulsen, P. E. J., Owers, M., Wise, M. W., Blanton, E. L., Sarazin, C. L., Owen, F. N., & David L. P. 2004, *Astrophysical Journal*, **613**, 180–188
- “XMM-Newton Observations of A133: A Weak Shock Passing through the Cool Core,” Fujita, Y., Sarazin, C. L., Reiprich, T. H., Andernach, H., Ehle, M., Murgia, M., Rudnick, L., & Slee, O. B. 2004, *Astrophysical Journal*, **616**, 157–168
- “The Complex Cooling Core of Abell 2029: Radio and X-Ray Interactions,” Clarke, T. E., Blanton, E. L., & Sarazin C. L. 2004, *Astrophysical Journal*, **616**, 178–191
- \* “Giant X-ray Cavities and Large Scale Shocks in a Distant Galaxy Cluster,” McNamara, B. R., Nulsen, P. E. J., Wise, M. W., Rafferty, D. A., Carilli, C., Sarazin, C. L., & Blanton, E. 2004, *Bulletin American Astronomical Society*, **36**, 1471
- “Chandra Observations of Diffuse Gas and Luminous X-ray Sources Around the X-ray Bright Elliptical NGC 1600”, Sivakoff, G. R., Sarazin, C. L., & Carlin, J. L. 2004, *Astrophysical Journal*, **617**, 262–280
- “Mergers, Cosmic Rays, and Non-Thermal Processes in Clusters of Galaxies,” Sarazin, C. L. 2004, *Journal Korean Astronomical Society*, **37**, 433–438
- \* “Cavities and Superbubbles in Clusters of Galaxies,” McNamara, B., Nulsen, P., Rafferty, D., Birzan, L., Wise, M., Carilli, C., Sarazin, C., Blanton, E., & Sharma, M. 2005, in COSPAR E1.2: Clusters of Galaxies: New Insights from XMM-Newton, Chandra and INTEGRAL, ed. M. Arnaud & J. Kaastra, 2940
- \* “Chandra Observations of Bent-Double Radio Sources in Clusters and Groups,” Blanton, E. L., Sarazin, C. L., Helfand, D. J., Gregg, M. D., Becker, R. H., & White, R. L. 2005, in COSPAR E1.2: Clusters of Galaxies: New Insights from XMM-Newton, Chandra and INTEGRAL, ed. M. Arnaud & J. Kaastra, 3130

- \* “Interactions between Radio Sources and X-Ray Gas at the Centers of Cooling Core Clusters,” Sarazin, C. L., Blanton, E. L., & Clarke, T. E. 2005, in COSPAR E1.2: Clusters of Galaxies: New Insights from XMM-Newton, Chandra and INTEGRAL, ed. M. Arnaud & J. Kaastra, 3580
- \* “Radio and X-ray Interactions in Dense Cooling Core Clusters,” Clarke, T. E., Sarazin, C. L., Blanton, E. L., & Kassim, N. E. 2005, in COSPAR E1.2: Clusters of Galaxies: New Insights from XMM-Newton, Chandra and INTEGRAL, ed. M. Arnaud & J. Kaastra, 3581
- “Heating a Distant Galaxy Cluster by Giant X-ray Cavities and Large-Scale Shock Fronts,” McNamara, B. R., Nulsen, P. E. J., Wise, M. W., Rafferty, D. A., Carilli, C., Sarazin, C. L., & Blanton, E. 2005, *Nature*, **433**, 45–47 (astro-ph/0411553)
- “Unveiling the Composition of Radio Plasma Bubbles in Galaxy Clusters with the Sunyaev-Zel’dovich Effect,” Pfrommer, C., Enßlin, T. A., & Sarazin C. L. 2005, *Astronomy and Astrophysics*, **430**, 799–810
- “Luminous X-ray Flares from Low Mass X-ray Binary Candidates in the Early-Type Galaxy NGC 4697,” Sivakoff, G. R., Sarazin, C. L., & Jordán, A. 2005, *Astrophysical Journal Letters*, **624**, L17-L20
- \* “The Effects of Cluster Mergers on their X-ray and SZ Properties and Use as Cosmological Probes,” Sarazin, C. L. 2005, in The Future of Cosmology with Clusters of Galaxies, <http://wynton.physics.lsa.umich.edu/%7Embusha/kona/session2/12-sarazin.pdf>
- \* “Tracing Intracluster Plasma with Radio and X-ray Observations,” Clarke, T. E., Sarazin, C. L., & Kassim, N. E. 2005, in The Future of Cosmology with Clusters of Galaxies, <http://www.umich.edu/~mctp/future/program.html#posters>
- \* “The Radio/X-ray Connection in Abell 2029,” Clarke, T. E., Blanton, E. L., & Sarazin, C. L. 2005, in X-Ray and Radio Connections, ed. L. O. Sjouerman, & K. K. Dyer <http://www.aoc.nrao.edu/events/xraydio/meetingcont/7.8-clarke.pdf>
- \* “Outstanding Questions about Mergers in Clusters of Galaxies,” Sarazin, C. L. 2005, in X-Ray and Radio Connections, ed. L. O. Sjouerman, & K. K. Dyer, <http://www.aoc.nrao.edu/events/xraydio/meetingcont/8.0-questions.pdf>
- \* “Mergers and Non-Thermal Processes in Clusters of Galaxies,” Sarazin, C. L. 2005, in X-Ray and Radio Connections, ed. L. O. Sjouerman, & K. K. Dyer, <http://www.aoc.nrao.edu/events/xraydio/meetingcont/8.1-sarazin.pdf>
- \* “GRB 050509b: Refined XRT/Chandra Afterglow Position Analysis,” Burrows, D. N., Patel, S., Sarazin, C., Rol, E., Goad, M. R., O’Brien, P. T., Willingale, R., & Gehrels N. 2005, Gamma-Ray Coordinates Network Circular GCN 3494, <http://gcn.gsfc.nasa.gov/gcn3/3494.gcn3>
- \* “A Wide Field X-ray Imaging Spectroscopy Mission: The Concept and Technology Development.” Ulmer, M., Sarazin, C., Irwin, K., & Figuera-Felicano, E. 2005, White Paper for the NASA Universe Roadmap

- “Low Frequency Radio Observations of X-ray Ghost Bubbles in Abell 2597: A History of Radio Activity in the Core,” Clarke, T. E., Sarazin, C. L., Blanton, E. L., Neumann, D. M., & Kassim N. E. 2005, *Astrophysical Journal*, **625**, 748–753
- \* “GRB 050906: Swift-BAT Refined Analysis,” Parsons, A., Sarazin, C., Barbier, L., Barthelmy, S., Cummings, J., Hullinger, D., Fenimore, E., Gehrels, N., Krimm, H., Markwardt, C., Marshall, F., Palmer, D., Sakamoto, T., Sato, G., Takahashi, T., Tueller J. 2005, Gamma-Ray Coordinates Network Circular GCN 3935, <http://gcn.gsfc.nasa.gov/gcn3/3935.gcn3>
- \* “Low Mass X-ray Binaries and Globular Clusters in Early-Type Galaxies,” Sarazin, C., Sivakoff, G., Juett, A., Jordán, A., & Côté, P. 2005, in *The X-ray Universe 2005*, ed. M. Watson & N. Schartel (Noordwijk, Netherlands; ESA), 174
- \* “X-ray and Radio Observations of Interactions in Cooling Core Clusters,” Clarke, T., Sarazin, C., Blanton, E., & Kassim, N. 2005, in *The X-ray Universe 2005*, ed. M. Watson & N. Schartel (Noordwijk, Netherlands; ESA), 277
- \* “Chandra Observations of Abell 13: Understanding the X-ray–Radio Interactions,” Juett, A., Sarazin, C., Clarke, T., Fujita, Y., Andernach, H., Ehle, M., Kempner, J., Roy, A., & Rudnick, L. 2005, in *The X-ray Universe 2005*, ed. M. Watson & N. Schartel (Noordwijk, Netherlands; ESA), 291
- “A Short  $\gamma$ -ray Burst Apparently Associated with an Elliptical Galaxy at Redshift  $z = 0.225$ ,” Gehrels, N., Sarazin, C. L., et al. 2005, *Nature*, **437**, 851–854 (astro-ph/0505630)
- “The ACS Virgo Cluster Survey X. Half-Light Radii of Globular Clusters in Early-Type Galaxies: Dependences and Use as a New Distance Indicator,” Jordán, A., Côté, P., Blakeslee, J. P., Ferrarese, L., McLaughlin, D. E., Mei, S., Peng, E. W., Tonry, J. L., Merritt, D., Milosavljević, M., Sarazin, C. L., Sivakoff, G. R., & West, M. J. 2005, *Astrophysical Journal*, **634**, 1002–1019
- \* “Ghost Cavities in Cluster Cores Viewed with Chandra and the VLA,” Clarke, T., Sarazin, C., Blanton, E., & Kassim, N. 2005, in *Six years of Science with Chandra* (Cambridge; Chandra X-ray Center), 45
- \* “Chandra Observations of the Cooling Flow Cluster A262,” Anderson, L., Blanton, E., Clarke, T., & Sarazin, C., 2005, in *Six years of Science with Chandra* (Cambridge; Chandra X-ray Center), 102
- \* “Chandra Observation of the Merging Cluster Abell 2065,” Chatzikos, M., & Sarazin, C. L. 2005 in *Six years of Science with Chandra* (Cambridge; Chandra X-ray Center), 104
- \* “Chandra Observation of the Cluster Environment of a WAT Radio Source in Abell 1446,” Douglass, E., Blanton, E., Clarke, T., Sarazin, C., & Wise, M. 2005, in *Six years of Science with Chandra* (Cambridge; Chandra X-ray Center), 106
- \* “Chandra Observation of Abell 13: Understanding the X-ray Radio Interaction,” Juett, A., Sarazin, C. L., Clarke, T., Fujita, Y., Andernach, H., Ehle, M., Kempner, J. C., Roy, A. L., & Rudnick, L. 2005, in *Six years of Science with Chandra* (Cambridge; Chandra X-ray Center), 112



- \* “The Low Mass X-ray Binary — Globular Connection in the HST ACS Virgo Cluster Survey,” Sivakoff, G. R., Sarazin, C. L., Jordán, A., Blanton, E. L., Côté, P., Ferrarese, L., Irwin, J. A. & Juett, A. M. 2005, in *Six years of Science with Chandra* (Cambridge; Chandra X-ray Center), 165
- \* “Laying the Groundwork for Cluster Dark Energy Studies: Response to the Dark Energy Task Force Call for White Papers,” Clarke, T., Lazio, J., Taylor, G., Sarazin, C. & Kassim, N. 2005, White Paper for the NSF
- “An Origin for Short  $\gamma$ -Ray Bursts Unassociated with Current Star Formation,” Barthelmy, S. D., Chincarini, G., Burrows, D. N., Gehrels, N., Covino, S., Moretti, A., Romano, P., O’Brien, P. T., Sarazin, C. L., Goad, M., Vaughan, S., Tagliaferri, G., Zhang, B., Antonelli, A., Campana, S., D’Avanzo, P., Davies, M., Giommi, P., Kennea, J. A., King, A., Kobayashi, S., Kouvelioutou, C., Melandri, A., Meszaros, P., Nousek, J. A., Patel, S., Sakamoto, T., & Wijers, R. A. M. J. 2005, *Nature*, **438**, 994–996 (astro-ph/0511579)
- \* “Deep Chandra & Hubble Observations of NGC 4697, the Nearest Optically Luminous, X-ray Faint Elliptical Galaxy,” Sivakoff, G. R., & Sarazin, C. L. 2005, in *Proceedings of the Virginia Space Grant Consortium 2005 Student Research Conference*, 1–10
- \* “Low Frequency Radio Observations of Interactions in Cooling Core Clusters,” Clarke, T. E., Sarazin, C. L., Blanton, E. L., Kassim, N. E., & Neumann, D. 2005, *Bulletin American Astronomical Society*, **37**, 1450
- \* “XMM-Newton and Chandra Observations of Abell 2626,” Wong, K.-W., Sarazin, C. L., Blanton, E. L., & Reiprich, T. H. 2005, *Bulletin American Astronomical Society*, **37**, 1450
- \* “The Low Mass X-ray Binary — Globular Connection in the HST ACS Virgo Cluster Survey,” Sivakoff, G. R., Sarazin, C. L., Blanton, E. L., Juett, A. M., & HST ACS Virgo Cluster Survey Team 2005, *Bulletin American Astronomical Society*, **37**, 1500–1501
- “Mergers and Non-Thermal Processes in Clusters,” Sarazin, C. L. 2005, *Highlight of Astronomy*, **13**, 291–295
- “XMM-Newton Observation of Diffuse Gas and LMXBs in the Elliptical Galaxy NGC 4649 (M60),” Randall, S. W., Sarazin, C. L., & Irwin, J. A. 2006, *Astrophysical Journal*, **636**, 200–213
- “Chandra Observations of A2670 and A2107: Galaxy Clusters with Large cD Peculiar Velocities,” Fujita, Y., Sarazin, C. L., & Sivakoff, G. R. 2006, *Publications of the Astronomical Society of Japan*, **58**, 131–141
- \* “Low Mass X-ray Binaries and Globular Clusters in Early-Type Galaxies,” Sarazin, C. L., Sivakoff, G. R., Juett, A. M., Jordán, A. 2006, in *The X-ray Universe 2005*, (Noordwijk, Netherlands: ESA), 409–413
- \* “X-ray and Radio Observations of Interactions in Cooling Core Clusters,” Clarke, T. E., Sarazin, C., Blanton, E., & Kassim, N. 2006, in *The X-ray Universe 2005*, (Noordwijk, Netherlands: ESA), 735–736

- \* “The Connection between Low Mass X-ray Binaries and Globular Clusters,” Sivakoff, G. R., & Sarazin, C. L. 2006, in Proceedings of the Virginia Space Grant Consortium 2006 Student Research Conference, 1–10
- \* “Low Mass X-ray Binaries and Globular Clusters in Early-Type Galaxies,” Sarazin, C. L. 2006, in Populations of High Energy Sources in Galaxies, ed. E. J. A. Meurs & G. Fabbiano (Cambridge: Cambridge Univ. Press), 200–204
- \* “Multi-Epoch Observations of LMXBs in Early-type Galaxies,” Sivakoff, G. R., Jordán, A., Juett, A. M., Sarazin, C. L. Côté, P., & Irwin, J. A. 2006, in Populations of High Energy Sources in Galaxies, ed. E. J. A. Meurs & G. Fabbiano (Cambridge: Cambridge Univ. Press), 210–214
- “Chandra Observation of Abell 2065: An Unequal Mass Merger?” Chatzikos, M., Sarazin, C. L., & Kempner, J. C. 2006, *Astrophysical Journal*, **643**, 751–763
- \* “The Optical Properties of Globular Clusters Containing Low-Mass X-ray Binaries,” Sivakoff, G. R., Jordan, A., Sarazin, C. L., Juett, A. M., & the HST ACS Virgo Cluster Survey Group 2006, *Bulletin American Astronomical Society*, **38**, 339
- \* “Tracing AGN Outburst in Clusters Cores Using X-ray and Low Frequency Radio Observations,” Clarke, T. E., Blanton, E., Sarazin, C., Kassim, N., & Anderson, L. 2006, *Bulletin American Astronomical Society*, **38**, 371
- \* “The Effects of Galaxy Cluster Mergers on Observations of the Sunyaev-Zel’dovich Effect,” Wik, D. R., Sarazin, C. L., Ricker, P. M., & Randall, S. W. 2006, *Bulletin American Astronomical Society*, **38**, 371–372
- \* “X-ray Observations of Abell 13: Understanding the X-ray and Radio Properties,” Juett, A. M., Sarazin, C. L., Clarke, T. E., Andernach, H., Ehle, M., Fujita, Y., Kempner, J. C., Roy, A. L., Rudnick, L., & Slee, O. B. 2006, *Bulletin American Astronomical Society*, **38**, 379
- “X-ray Detection of the Proto Supermassive Binary Black Hole at the Centre of Abell 400,” Hudson, D. S., Reiprich, T. H., Clarke, T. E., & Sarazin, C. L. 2006, *Astronomy and Astrophysics*, **453**, 433–446
- \* “Diffuse Radio Sources in Clusters of Galaxies: Models and Long Wavelength Radio Observations,” Sarazin, C. L. 2006, in *IAU Joint Discussion 12: Long Wavelength Astrophysics*, 362
- “Chandra Observation of the Interaction of the Radio Source and Cooling Core in Abell 2063,” Kanov, K. N., Sarazin, C. L., & Hicks, A. K. 2006, *Astrophysical Journal*, **653**, 184–192
- “A New  $\gamma$ -ray Burst Classification Scheme from GRB 060614,” Gehrels, N., Norris, J. P., Barthelmy, S. D., Granot, J., Kaneko, Y., Kouveliotou, C., Markwardt, C. B., Mészáros, P., Nakar, E., Nousek, J. A., O’Brien, P. T., Page, M., Palmer, D. M., Parsons, A. M., Roming, P. W. A., Sakamoto, T., Sarazin, C. L., Schady P., Stamatikos, M., & Woosley, S. E. 2006, *Nature*, **444**, 1044–1046 (astro-ph/0610635)

- \* “Revisiting the Low Metallicity Problem of the Hot ISM in X-ray Faint Early-type Galaxies,” Irwin, J, Sivakoff, G. R., Sarazin, C. L., Ji, J., Bregman, J. N., & Mathews, W. G. 2006, *Bulletin American Astronomical Society*, **38**, 899–900
- \* “Chandra Observation of the Cluster Environment of a WAT Radio Source in Abell 1446,” Douglass, E., Blanton, E., Clarke, T., Sarazin, C., & Wise M. 2006, *Bulletin American Astronomical Society*, **38**, 999–1000
- \* “Low Frequency Radio Observations and the Effects of Mergers and Radio Galaxies on the Intracluster Gas in Clusters of Galaxies,” Sarazin, C. L., Wik, D. R., Clarke, T. E., Anderson, L., & Blanton, E. L. 2007, in X-ray Surveys: Evolution of Accretion, Star-Formation, and the Large Scale Structure, ed. I. Georgantopoulos & M. Plionis (Athens: National Observatory Athens), 53
- \* “Constructing a Library of Galaxy Cluster Merger Simulations,” Chatzikos, M., & Sarazin, C. 2007, in X-ray Surveys: Evolution of Accretion, Star-Formation, and the Large Scale Structure, ed. I. Georgantopoulos & M. Plionis (Athens: National Observatory Athens), 76-77
- \* “X-ray Observations of Clusters with Wide-Angle Tail Radio Galaxies,” Blanton, E., Douglass, E., Wing, J., Sarazin, C., & Clarke, T. 2007, in X-ray Surveys: Evolution of Accretion, Star-Formation, and the Large Scale Structure, ed. I. Georgantopoulos & M. Plionis (Athens: National Observatory Athens), 78-79
- “The Low-Mass X-ray Binary and Globular Cluster Connection in Virgo Cluster Early-type Galaxies: Optical Properties,” Sivakoff, G. R., Jordán, A., Sarazin, C. L., Blakeslee, J. P., Côté, P., Ferrarese, L., Juett, A. M., Mei, S., Merritt, D., Milosavljević, M., Peng, E. W., Tonry, J. L., & West, M. J. 2007, *Astrophysical Journal*, **660**, 1246–1263
- \* “Studying the Nature of Dark Energy with Galaxy Clusters,” Reiprich, T. H., Hudson, D. S., Erben, T., & Sarazin, C. L. 2007, *Astronomische Nachrichten*, **328**, 689
- “New Results on Particle Acceleration in the Centaurus A Jet and Counterjet from a Deep Chandra Observation,” Hardcastle, M. J., Kraft, R. P., Sivakoff, G. R., Goodger, J. L., Croston, J. H., Jordán, A., Evans, D. A., Worrall, D. M., Birkinshaw, M., Raychaudhury, S., Brassington, N. J., Forman, W. R., Harris, W. E., Jones, C., Juett, A. M., Murray, S. S., Nulsen, P. E. J., Sarazin, C. L., & Woodley K. A. 2007, *Astrophysical Journal Letters*, **670**, L81–L84
- \* “Introduction to Cluster Cooling Cores,” Sarazin, C. L. 2007, in Heating Versus Cooling in Galaxies and Clusters of Galaxies, ed. H. Böhringer, G. W. Pratt, A. Finoguenov, & P. Schuecker (Berlin: Springer-Verlag), 3–12
- \* “A Deep Chandra Observation of A2052,” Blanton, E. L., Douglass, E. M., Sarazin, C. L., Clarke, T. E., & McNamara, B. R. 2007, in Heating Versus Cooling in Galaxies and Clusters of Galaxies, ed. H. Böhringer, G. W. Pratt, A. Finoguenov, & P. Schuecker (Berlin: Springer-Verlag), 109–111
- \* “Tracing Ghost Cavities with Low Frequency Radio Observations,” Clarke, T. E., Blanton, E. L., Sarazin, C. L., Kassim, N., Anderson, L., Schmitt, H., Gopal Krishna, & Neumann, D. 2007, in Heating Versus Cooling in Galaxies and Clusters of Galaxies, ed. H. Böhringer, G. W. Pratt, A. Finoguenov, & P. Schuecker (Berlin: Springer-Verlag), 124–129 (astro-ph/0612595)

- “Diffuse Radio Sources in Clusters of Galaxies: Models and Long Wavelength Radio Observations,” Sarazin, C. L. 2007, *Highlight of Astronomy*, **14**, 369–371
- “Low-Mass X-ray Binaries and Globular Clusters in Centaurus A,” Jordán, A., Sivakoff, G. R., McLaughlin, D. E., Blakeslee, J. P., Evans, D. A., Kraft, R. P., Hardcastle, M. J., Peng, E. W., Côté, P., Croston, J. H., Juett, A. M., Minniti, D., Raychaudhury, S., Sarazin, C. L., Worrall, D. M., Harris, W. E., Woodley, K. A., Birkinshaw, M., Brassington, N. J., Forman, W. R., & Jones, C. 2007, *Astrophysical Journal Letters*, **671**, L117–L120
- \* “Suzaku XIS, HXD, and XMM-Newton Observations of Thermal and Nonthermal Emission at Large Radii in the Merging Cluster Abell 3667,” Sarazin, C. L., Nakazawa, K., Wik, D. R., Finoguenov, A., Kawaharada, M., Makishima, K., Kitaguchi, T., Okuyama, S., Kawano, N., Fukazawa, Y., Inoue, S., Takizawa, M., & Clarke, T. E. 2007, in *The Suzaku Universe*, 12
- \* “PIN’-ning Down a Nonthermal Component in the Hard X-ray Emission of the Coma Cluster with Suzaku HXD/XIS and XMM-Newton Observations”, Wik, D. R., Sarazin, C. L., Finoguenov, A., Matsushita, K., Nakazawa, K., & Clarke, T. E. 2007, in *The Suzaku Universe*, 33
- \* “Hard X-ray Properties of a Merging Cluster Abell 3667 as Observed with Suzaku,” Nakazawa, K., Sarazin, C. L., Kawaharada, M., Makishima, K., Kitaguchi, T., Okuyama, S., Kawano, N., Fukazawa, Y., Inoue, S., Takizawa, M., Wik, D. R., Finoguenov, A., & Clarke, T. E. 2007, in *The Suzaku Universe*, 35
- \* “Early Results from a Deep Chandra Observation of Centaurus A”, Sivakoff, G. R., et al. including Sarazin, C. L. 2007, *Bulletin American Astronomical Society*, **39**, 794
- “Chandra Observations of Abell 13: Investigating the Origin of the Radio Relic,” Juett, A., Sarazin, C., Clarke, T., Andernach, H., Ehle, M., Fujita, Y., Kempner, J., Roy, A., Rudnick, L., & Slee, O. B. 2008, *Astrophysical Journal*, **672**, 138–145
- “Where Centaurus A Gets Its X-ray Knottiness,” Worrall, D. M., Birkinshaw, M., Kraft, R. P., Sivakoff, G. R., Jordán, A., Hardcastle, M. J., Brassington, N. J., Croston, J. H., Evans, D. A., Forman, W. R., Harris, W. E., Jones, C., Juett, A. M., Murray, S. S., Nulsen, P. E. J., Raychaudhury, S., Sarazin, C. L., & Woodley K. A. 2008, *Astrophysical Journal Letters*, **673**, L135–L138
- “Chandra Observation of the Cluster Environment of a WAT Radio Source in Abell 1446,” Douglass, E., Blanton, E., Clarke, T., Sarazin, C., & Wise M. 2008, *Astrophysical Journal*, **673**, 763–777
- “Gas Dynamics in Clusters of Galaxies,” Sarazin, C. L. 2008, in *A Pan-Chromatic View of Clusters of Galaxies and the Large-Scale Structure*, ed. M. Plionis, O. Lopez-Cruz, & D. Hughes (Dordrecht: Springer), 1–30 ([http://dx.doi.org/10.1007/978-1-4020-6941-3\\_1](http://dx.doi.org/10.1007/978-1-4020-6941-3_1))
- “A Transient Black-Hole Low-Mass X-Ray Binary Candidate in Centaurus A,” Sivakoff, G. R., Kraft, R. P., Jordán, A., Juett, A. M., Evans, D. A., Forman, W. R., Hardcastle, M. J., Sarazin, C. L., Birkinshaw, M., Brassington, N. J., Croston, J. H., Harris, W. E., Jones, C., Murray, S. S., Raychaudhury, S., Woodley, K. A., & Worrall D. M. 2008, *Astrophysical Journal Letters*, **677**, L27–L30

- \* “XMM-Newton and Chandra Observations of Abell 2626: Interacting Radio Jets and Cooling Core with Jet Precession?,” Wong, K.-W., Sarazin, C. L., Blanton, E. L., & Reiprich, T. H. 2008, *Bulletin American Astronomical Society*, **40**, 43
- \* “Deep Chandra Observations of the Cool Core Clusters A2052 and A262,” Blanton, E. L., Randall, S. W., Douglass, E. M., Clarke, T. E., Anderson, A., Sarazin, C. L., & McNamara, B. R. 2008, *Bulletin American Astronomical Society*, **40**, 43
- \* “The Continued Search for Non-Thermal Hard X-ray Emission in the Coma and Abell 3667 Galaxy Clusters,” Wik, D. R., Sarazin, C. L., Nakazawa, K., Finoguenov, A., Kawaharada, M., Kitaguchi, T., Okuyama, S., Matsushita, K., & Clarke, T. E. 2008, *Bulletin American Astronomical Society*, **40**, 66
- “Evidence for Nonhydrostatic Gas Motions in the Hot Interstellar Medium of Centaurus A,” Kraft, R. P., Hardcastle, M. J., Sivakoff, G. R., Jordán, A., Nulsen, P. E. J., Birkinshaw, M., Forman, W. R., Jones, C., Worrall, D. M., Croston, J. H., Evans, D. A., Raychaudhury, S., Murray, S. S., Brassington, N. J., Goodger, J. L., Harris, W. E., Juett, A. M., Sarazin, C. L., & Woodley, K. A. 2008, *Astrophysical Journal Letters*, **677**, L97–L100
- “An Infrared Survey of Brightest Cluster Galaxies: I,” Quillen, A. C., Zufelt, N., Park, J., O’Dea, C. P., Baum, S. A., Privon, G., Noel-Storr, J., Edge, A., Russell, H., Fabian, A., Donahue, M., Bregman, J. N., McNamara, B. R., & Sarazin, C. L. 2008, *Astrophysical Journal Supplement*, **176**, 39–58
- “The Impact of Galaxy Cluster Mergers on Cosmological Parameter Estimation from Surveys of the Sunyaev-Zel’dovich Effect,” Wik, D. R., Sarazin, C. L., Ricker, P. M., & Randall, S. W. 2008, *Astrophysical Journal*, **680**, 17–31
- \* “Hard X-rays from Clusters: Suzaku and XMM-Newton Observations of Coma, Abell 3667, and Ophiuchus,” Sarazin, C. L. 2008, in *The Warm and Hot Universe*, ed. F. Paerels (New York: Columbia), 4–5
- “An Infrared Survey of Brightest Cluster Galaxies. II: Why are Some Brightest Cluster Galaxies Forming Stars?,” O’Dea, C. P., Baum, S. A., Privon, G., Noel-Storr, J., Quillen, A. C., Zufelt, N., Park, J., Edge, A., Russell, H., Fabian, A., Donahue, M., Sarazin, C. L., McNamara, B. R., Bregman, J. N., & Egami, E. 2008, *Astrophysical Journal*, **681**, 1035–1045
- \* “Hard X-ray Emission and IC in Coma and Abell 3667 from Suzaku and XMM-Newton,” Sarazin, C. L., Wik, D. R., Nakazawa, K., inoguenov, A., Matsushita, K., Kawaharada, M., Makishima, K., Kitaguchi, T., Okuyama, S., Kawano, N., Fukazawa, Y., Inoue, S., Takizawa, M., & Clarke, T. E. 2008, in *The X-ray Universe 2008*, ed. M. Diaz Trigo & M. Ehle (Villanueva de la Canãda, Spain: ESA), 150
- “XMM-Newton and Chandra Observations of Abell 2626: Interacting Radio Jets and Cooling Core with Jet Precession?,” Wong, K.-W., Sarazin, C. L., Blanton, E. L., & Reiprich, T. H. 2008, *Astrophysical Journal*, **682**, 155–174
- \* “Variable Low-Mass X-ray Binaries in Early-Type Galaxies,” Sivakoff, G. R., Jordán, A., Juett, A. M., Sarazin, C. L., & Irwin, J. A. in *A Population Explosion: The Nature and Evolution of X-ray Binaries in Diverse Environments*, ed. Bandyopadhyay, R. M., Wachter, S., Gelino, D., & Gelino, C. R. 2008, *AIP Conference Proceedings*, **1010**, 308–312

- “Suzaku Observation of the Ophiuchus Galaxy Cluster: One of the Hottest Relaxed Cool Core Clusters,” Fujita, Y., Nagai, M., Hayashida, K., Inoue, S., Matsumoto, H., Okabe, N., Reiprich, T. H., Sarazin, C. L., & Takizawa, M. 2008, *Publications of Astronomical Society of Japan*, **60**, 1133–1142
- \* “Preliminary Results from a Deep Chandra Observation of Centaurus A,” Kraft, R. P., Hardcastle, M. J., Jordan, A., Sivakoff, G., Worrall, D. M., Evans, D. A., Croston, J. H., Forman, W. R., Jones, C., Nulsen, P. E. J., Goodger, J., Murray, S. S., Birkinshaw, M., Sarazin, L., Juett, A. M., Raychaudhury, S., Brassington, N. J., Harris, W. E., & Woodley, K. A. 2008, in *X-Rays from Nearby Galaxies*, (Garching, Germany: MPE Report 295), 116–119
- \* “Studying the Nature of Dark Energy with Galaxy Clusters,” Reiprich, T. H., Hudson, D. S., Erben, T., & Sarazin, C. L. 2008, in *Relativistic Astrophysics and Cosmology — Einstein’s Legacy*, ed. B. Aschenbach, V. Burwitz, G. Hasinger, & B. Leibundgut (Berlin: Springer Verlag), 344 <http://www.mpe.mpg.de/~e05/proceedings/index.html> (astro-ph/0603129)
- \* “The Low-Mass X-Ray Binary Globular Cluster Connection in the ACS Virgo Cluster Survey,” Jordán, A., Sivakoff, G. R., Sarazin, C. L., Blakeslee, J. P., Blanton, E. L., Côté, C. P., Ferrarese, L., Irwin, J. A., Juett, A. M., Mei, S., Peng, E. W., & West, M. J. 2009, in *Globular Clusters - Guides to Galaxies* (Berlin: Springer Verlag), 305
- “A Suzaku Search for Non-thermal Emission at Hard X-ray Energies in the Coma Cluster,” Wik, D. R., Sarazin, C. L., Finoguenov, A., Matsushita, K., Nakazawa, K., & Clarke, T. E. 2009, *Astrophysical Journal*, **696**, 1700–1711
- “Shocks and Bubbles in a Deep Chandra Observation of the Cooling Flow Cluster Abell 2052,” Blanton, E. L., Randall, S. W., Douglass, E. M., Sarazin, C. L., Clarke T. E., & McNamara, B. R. 2009, *Astrophysical Journal Letters*, **697**, L95–L98
- “Tracing Multiple Generations of AGN Feedback in the Core of Abell 262,” Clarke, T. E., Blanton, E. L., Sarazin, C. L., Anderson, L. D., Gopal-Krishna, Douglass, E. M., & Kassim, N. E. 2009, *Astrophysical Journal*, **697**, 1481–1492
- “High-Energy Particle Acceleration at the Radio-Lobe Shock of Centaurus A,” Croston, J. H., Kraft, R. P., Hardcastle, M. J., Birkinshaw, M., Worrall, D. M., Nulsen, P. E. J., Penna, R. F., Brassington, N. J., Evans, D. A., Forman, W. R., Gilfanov, M., Goodger, J. L., Harris, W. E., Jones, C., Jordán, A., Juett, A. M., Murray, S. S., Raychaudhury, S., Sarazin, C. L., Sivakoff, G. R., Voss, R., & Woodley, K. A. 2009, *Monthly Notices Royal Astronomical Society*, **395**, 1999–2012
- “Hard X-ray Properties of a Merging Cluster Abell 3667 as Observed with Suzaku,” Nakazawa, K., Sarazin, C. L., Kawaharada, M., Makishima, K., Kitaguchi, T., Okuyama, S., Kawano, N., Fukazawa, Y., Inoue, S., Takizawa, M., Wik, D. R., Finoguenov, A., & Clarke, T. E. 2009, *Publications of the Astronomical Society of Japan*, **61**, 339–355
- \* “Cosmic Feedback from Supermassive Black Holes,” Fabian, A. C., Heinz, S., McNamara, B. R., Nandra, K., Nulsen, P., Taylor, G. B., Churazov, E., Sarazin, C., and others, 2009, *Astro2010: The Astronomy and Astrophysics Decadal Survey, Science White Papers*, **73**, 1–8

- \* “Diffuse Baryonic Matter Beyond 2020,” Markevitch, M., Nicastro, F., Nulsen, P., Rasia, E., Vikhlinin, A., Kravtsov, A., Forman, W., Brunetti, G., Sarazin, C., Elvis, M., Fabbiano, G., Hornschemeier, A., & Brissenden, R. 2009, *Astro2010: The Astronomy and Astrophysics Decadal Survey, Science White Papers*, **192**, 1–8
- \* “Clusters and Large-Scale Structure: the Synchrotron Keys,” Rudnick, L., Sarazin, C. many others, 2009, *Astro2010: The Astronomy and Astrophysics Decadal Survey, Science White Papers*, **253**, 1–8
- \* “Radio Activity in H1743–322,” Miller-Jones, J. C. A., Sivakoff, G. R., Migliari, S., Koerding, E., Rupen, M. P., Remillard, R. A., Dhawan, V., Russell, D. M., Maitra, D., Fender, R. P., Markoff, S., Heinz, S., Sarazin, C. L., & Maccarone, T. J. 2009, *Astronomer’s Telegram*, **2062**, 1
- “X-ray Substructure Studies of Four Galaxy Clusters Using XMM-Newton Data,” Zhang, Y.-Y., Reiprich, T. H., Finoguenov, A., Hudson, D. S., & Sarazin, C. L. 2009, *Astrophysical Journal*, **699**, 1178–1195
- \* “Thermal and Nonthermal Hard X-ray Emission from Clusters of Galaxies,” Sarazin, C. L., Wik, D. R., Nakazawa, K., Finoguenov, A., Matsushita, K., Clarke, T. E., Fukazawa, Y., Inoue, S., Kawaharada, M., & Kawano, N. 2009, in *The Energetic Cosmos: from Suzaku to Astro-H*, 19
- \* “Detection of Motions in the Merging Cluster Cygnus A,” Wik, D. R., and Sarazin, C. L. 2009, in *The Energetic Cosmos: from Suzaku to Astro-H*, 94
- \* “Suzaku Observations of  $K\alpha$  Lines of Iron from the Intracluster Medium of the Coma Cluster,” Sato, T., Matsushita, K., Ota, N., Nakazawa, K., & Sarazin, C. 2009, in *The Energetic Cosmos: from Suzaku to Astro-H*, 99
- “Luminosity Functions of LMXBs in Centaurus A, Globular Clusters Versus the Field,” Voss, R., Gilfanov, M., Sivakoff, G. R., Kraft, R. P., Jordàn, A., Raychaudhury, S., Birkinshaw, M., Brassington, N. J., Croston, J., Evans, D. A., Forman, W. R., Hardcastle, M. J., Harris, W. E., Jones, C., Juett, A., Murray, S. S., Nulsen, P., Sarazin, C. L., Woodley K., & Worrall D. 2009, *Astrophysical Journal*, **701**, 471–480
- \* “Feedback and Environmental Effects in Elliptical Galaxies,” Sarazin, C. L. 2009, in *IAU GA: Hot Gas in Elliptical Galaxies*, 300
- \* “AGN Feedback in the Cool Cores of A2052 and A262,” Blanton, E. L., Randall, S. W., Clarke, T. E., Sarazin, C. L., Douglass, E. M., Anderson, L. D., & McNamara, B. R. 2009, in *IAU GA: Co-Evolution of Central Black Holes and Galaxies*, 210
- “Comparing GC and Field LMXBs in Elliptical Galaxies with Deep Chandra and Hubble Data,” Kim, D.-W., Fabbiano, G., Brassington, N. J., Fragos, T., Kalogera, V., Zezas, A., Jordan, A., Sivakoff, G. R., Kundu, A., Zepf, S. E., Angelini, L., Davies, R. L., Gallagher, J. S., Juett, A. M., King, A. R., Pellegrini, S., Sarazin, C. L., & Trinchieri, G. 2009, *Astrophysical Journal*, **703**, 829–844
- \* “A Detailed Analysis of the Cores of HIFLUGCS Galaxy Clusters: ICM Cooling and AGN Heating,” Mittal, R., Reiprich, T., Nulsen, P., Sarazin, C., Andernach, H., Clarke, T., & Hudson, D. 2009, in *Chandra’s First Decade of Discovery*, ed. S. Wolk, A. Fruscione, & D. Swartz, 31

- \* “Centaurus A: Interaction of a Radio Source with its Environment,” Nulsen, P., Kraft, R., Stark, D., Croston, J., Hardcastle, M., Birkinshaw, M., Worrall, D., Sivakoff, G., Jordan, A., Brassington, N., Evans, D., Forman, W., Gilfanov, M., Goodger, J., Jones, C., Harris, W., Juett, A., Murray, S., Raychaudhury, S., Sarazin, C., Voss, R., & Woodley, K. 2009, in *Chandra’s First Decade of Discovery*, ed. S. Wolk, A. Fruscione, & D. Swartz, 50
- \* “The Cluster Environment of Wide Angle Tail Radio Sources,” Douglass, E., Blanton, E. L., Clarke, T. E., & Sarazin, C. L. 2009, in *Chandra’s First Decade of Discovery*, ed. S. Wolk, A. Fruscione, & D. Swartz, 89
- \* “An X-ray Study of the Nearby Massive Early-Type Galaxy NGC 4472.” Kraft, R., Forman, W. R., Jones, C., Nulsen, P. E. J., Hardcastle, M. J., Evans, D. A., Raychaudhury, S., Sivakoff, G., Sarazin, C., & Murray, S. S. 2009, in *Chandra’s First Decade of Discovery*, ed. S. Wolk, A. Fruscione, & D. Swartz, 134
- \* “Transient X-ray Binaries in Early-Type Galaxies,” Sivakoff, G. R., Kraft, R., Sarazin, C. L., & the Centaurus-A Very Large Project Team 2009, in *Chandra’s First Decade of Discovery*, ed. S. Wolk, A. Fruscione, & D. Swartz, 197
- \* “Effects of the Non-Equipartition of Electrons and Ions in the Outskirts of Relaxed Galaxy Clusters,” Wong, K.-W., & Sarazin, C. L. 2009, in *Chandra’s First Decade of Discovery*, ed. S. Wolk, A. Fruscione, & D. Swartz, 211
- “Effects of the Non-Equipartition of Electrons and Ions in the Outskirts of Relaxed Galaxy Clusters,” Wong, K.-W., & Sarazin, C. L. 2009, *Astrophysical Journal*, **707**, 1141–1159
- \* “Gas Dynamics of NGC 4472,” Kraft, R. P., Forman, W. R., Jones, C., Nulsen, P. E. J., Hardcastle, M. J., Evans, D. A., Raychaudhury, S., Sivakoff, G., Sarazin, C. L., & Murray, S. S. 2009, in *X-ray Astronomy 2009*
- “Long Term Monitoring of the Dynamics and Particle Acceleration in the Jet of Centaurus A,” Goodger, J. L., Hardcastle, M. J., Croston, J. H., Birkinshaw, M., Evans, D. A., Jordán, A., Kraft, R. P., Nulsen, P. E. J., Sivakoff, G. R., Worrall, D. M., Brassington, N. J., Forman, W. R., Gilfanov, M., Harris, W. E., Jones, C., Juett, A. M., Murray, S. S., Raychaudhury, S., Sarazin, C. L., Voss, R., & Woodley, K. A. 2010, *Astrophysical Journal*, **708**, 675–697
- “Spectacular X-ray Tails, Intracluster Star Formation and ULXs in A3627,” Sun, M., Donahue, M., Roediger, E., Nulsen, P. E. J., Forman, W., Jones, C., Voit, M., & Sarazin C. 2010, *Astrophysical Journal*, **708**, 946-964
- \* “Constraining the Cold Gas and Dust in Cluster Cooling Flows,” O’Dea, C. P., Edge, A., Hamer, S., Fabian, A., Johnstone, R., Crawford, C., Oonk, R., Jaffe, W., Hatch, N., Baum, S., Mittal, R., Quillen, A., Wilman, R., Wise, M., McNamara, B., Bremer, M., Combes, F., Salome, P., Böhringer, H., Popesso, P., Sarazin, C. L., Allen, S., Egami, E., Donahue, M., Voit, M., Bregman, J. & Ferland, G. 2010, *Bulletin American Astronomical Society*, **42**, 398
- \* “Introducing SLAM: Simulation Library of Astrophysical galaxy cluster Mergers,” Chatzikos, M., Sarazin, C. L., & O’Shea, B. W. 2010, *Bulletin American Astronomical Society*, **42**, 534



- \* “X-ray and SZ Signatures of the Non-Equipartition Between Electrons and Ions in the Envelopes of Relaxed Galaxy Clusters,” Wong, K.-W., & Sarazin, C. 2010, *Bulletin American Astronomical Society*, **42**, 553
- \* “The Interaction of Hot Gas, Cool Gas and Dust, and Radio Plasma in the Central Galaxies of Cool Core Clusters,” Sarazin, C. L. 2010, *Bulletin American Astronomical Society*, **42**, 655
- \* “Buoyant Bubbles and the Disturbed Cool Core of Abell 133,” Randall, S. W., Clarke, T., Nulsen, P., Owers, M., Sarazin, C., Forman, W., Jones, C., & Murray, S. 2010, *Bulletin American Astronomical Society*, **42**, 656
- \* “A Very Deep Chandra Observation of the Cool Core Cluster Abell 2052,” Blanton, E. L., Randall, S. W., Sarazin, C. L., McNamara, B. R., & Clarke, T. E. 2010, *Bulletin American Astronomical Society*, **42**, 710
- \* “The Nature of Extended Hard X-ray Emission from the Coma Cluster as Observed by the Swift BAT,” Wik, D. R., Sarazin, C. L., Okajima, T., Finoguenov, A., Mushotzky, R., Tueller, J., & Clarke, T. E. 2010, *Bulletin American Astronomical Society*, **42**, 712
- \* “Introducing SLAM: Simulation Library of Astrophysical galaxy cluster Mergers,” Chatzikos, M., Sarazin, C. L., & O’Shea, B. W. 2010, *Bulletin American Astronomical Society*, **42**, 712
- \* “Non-Equilibrium Processes in Relaxed Galaxy Cluster Outskirts,” Wong, K.-W., Sarazin, C. L., Wik, D. R., Ji, L., Wang, Q. D., & Tripp, T. M. 2010, *Bulletin American Astronomical Society*, **42**, 713–714
- \* “Particle Acceleration in Cosmic Shocks: XMM-Newton and Suzaku Observations of the Merger Shock and NW Radio Relic in Abell 3667,” Sarazin, C. L., Finoguenov, A., Nakazawa, K., Wik, D. R., & Clarke, T. E. 2010, *Bulletin American Astronomical Society*, **42**, 714
- \* “The Transient X-ray Binary Population of Centaurus A,” Sivakoff, G. R., Sarazin, C. L., et al., 2010, *Bulletin American Astronomical Society*, **42**, 735
- “XMM-Newton Observation of the Northwest Radio Relic Region in Abell 3667,” Finoguenov, A., Sarazin, C. L., Nakazawa, K., Wik, D. R., & Clarke, T. E. 2010, *Astrophysical Journal*, **715**, 1143–1151
- “Active Galactic Nucleus Feedback in Clusters of Galaxies,” Blanton, E. L., Clarke, T. E., Sarazin, C. L., Randall, S. W., & McNamara, B. R. 2010, *Proceedings of the National Academy of Sciences*, **107**, 7174–7178
- “What is a Cooling Core Cluster? A Detailed Analysis of the Cores of the X-ray Flux-Limited HIFLUGCS Cluster Sample,” Hudson, D. S., Mittal, R., Reiprich, T. H., Nulsen, P. E. J., Andernach, H., & Sarazin, C. L. 2010, *Astronomy and Astrophysics*, **513**, A37 (40 pages)

- “Evolution of the Radio—X-ray Coupling Throughout an Entire Outburst of Aquila X-1,” Miller-Jones, J. C. A., Sivakoff, G. R., Altamirano, D., Tudose, V., Migliari, S., Dhawan, V., Fender, R. P., Garrett, M. A., Heinz, S., Körding, E. G., Krimm, H. A., Linares, M., Maitra, D., Markoff, S., Paragi, Z., Remillard, R. A., Rupen, M. P., Rushton, A., Russell, D. M., Sarazin, C. L., & Spencer, R. E. 2010, *Astrophysical Journal Letters*, **716**, L109–L114
- \* “Non-Thermal and Thermal Hard X-ray Emission from Clusters of Galaxies,” Sarazin, C. L., Wik, D. R., Nakazawa, K., Finoguenov, A., Clarke, T. E., Fukazawa, Y., Inoue, S., Kawaharada, M., & Takizawa, M. 2010, in *The Energetic Cosmos: from Suzaku to Astro-H*, JAXA-SP-09-008E, ed. K. Makishima (Tokyo: JAXA), 78–81
- \* “The Merger Dynamics of the Cygnus A Cluster: Direct Detection of the Subcluster Infall Velocity,” Wik, D. R., & Sarazin, C. L. 2010, in *The Energetic Cosmos: from Suzaku to Astro-H*, JAXA-SP-09-008E, ed. K. Makishima (Tokyo: JAXA), 88–89
- \* “Suzaku Observations of  $K\alpha$  Lines of Iron from the Intracluster Medium of the Coma Cluster,” Sato, T., Matsushita, K., Ota, N., Nakazawa, K., & Sarazin, C. 2010, in *The Energetic Cosmos: from Suzaku to Astro-H*, JAXA-SP-09-008E, ed. K. Makishima (Tokyo: JAXA), 102–103
- \* “Star Formation Amid the Feedback-Driven X-ray Cavity in the Cool-Core Cluster Abell 2597,” Tremblay, G., O’Dea, C., Mittal, R., Baum, S., Edge, A., Sarazin, C. L., Bregman, J., Donahue, M., Fabian, A., Voit, M., & Wilman, R. 2010, in *Galaxy Clusters: Observations, Physics, and Cosmology*, (Garching: MPE), 12
- \* “Nonthermal Emission and the Dynamical State of Clusters,” Sarazin, C. L. 2010, in *Galaxy Clusters: Observations, Physics, and Cosmology*, (Garching: MPE), 48
- “Herschel Observations of FIR Emission Lines in Brightest Cluster Galaxies,” Edge, A. C., Oonk, J. B. R., Mittal, R., Allen, S. W., Baum, S. A., Böhringer, H., Bregman, J. N., Bremer, M. N., Combes, F., Crawford, C. S., Donahue, M., Egami, E., Fabian, A. C., Hamer, S. L., Hatch, N. A., Jaffe, W., Johnstone, R. M., McNamara, B. R., O’Dea, C. P., Popesso, P., Quillen, A. C., Salomé, P., Sarazin, C. L., Voit, G. M., Wilman, R. J., & Wise, M. W. 2010, *Astronomy & Astrophysics Letters*, **518**, 46L (4 pages)
- “Herschel Photometry of Brightest Cluster Galaxies in Cooling Flow Clusters,” Edge, A. C., Oonk, J. B. R., Mittal, R., Allen, S. W., Baum, S. A., Böhringer, H., Bregman, J. N., Bremer, M. N., Combes, F., Crawford, C. S., Donahue, M., Egami, E., Fabian, A. C., Hamer, S. L., Hatch, N. A., Jaffe, W., Johnstone, R. M., McNamara, B. R., O’Dea, C. P., Popesso, P., Quillen, A. C., Salomé, P., Sarazin, C. L., Voit, G. M., Wilman, R. J., & Wise, M. W. 2010, *Astronomy & Astrophysics Letters*, **518**, 47L (5 pages)
- “The Impact of Non-Equipartition on Cosmological Parameter Estimation from Sunyaev-Zel’dovich Surveys,” Wong, K.-W., Sarazin, C. L., & Wik, D. R. 2010, *Astrophysical Journal*, **719**, (8 pages)
- “The 400d Galaxy Cluster Survey Weak Lensing Programme: I: MMT/Megacam Analysis of CL0030+2618 at  $z=0.50$ ,” Israel, H., Erben, T., Reiprich, T. H., Vikhlinin, A., Hildebrandt, H., Hudson, D. S., McLeod, B. A., Sarazin, C. L., Schneider, P., & Zhang, Y.-Y. 2010, *Astronomy & Astrophysics*, **520**, A58 (29 pages)

- “Radio and Deep Chandra Observations of the Disturbed Cool Core Cluster Abell 133,” Randall, S. W., Clarke, T., Nulsen, P., Owers, M., Sarazin, C., Forman, W., & Murray, S. 2010, *Astrophysical Journal*, **722**, 825–846
- \* “Observations of Hard X-rays from Clusters and Cluster Mergers,” Sarazin, C. 2010, in *Non-Thermal Phenomena in Colliding Galaxy Clusters*, ed. C. Ferrari (Nice: CNRS), 12
- “Feedback and Environmental Effects in Elliptical Galaxies,” Sarazin, C. L. 2010, *Highlights of Astronomy*, **15**, 289–290
- \* “Spitzer Observations of Star Formation in Brightest Cluster Galaxies,” O’Dea, C. P., Quillen, A., Park, J., Zufelt, N., Baum, S. A., Privon, G., Storr, J. N., Edge, A., Russell, H., Fabian, A., Donahue, M., Sarazin, C. L., McNamara, B., Bregman, J., & Egami E. in *The Monster’s Fiery Breath: Feedback in Galaxies, Groups, and Clusters*, ed. S. Heinz & E. Wilcots 2010, AIP Conf. Ser. 1201, 182–185
- “New High-Resolution Sunyaev-Zel’dovich Observations with GBT+MUSTANG,” Mroczkowski, T., Devlin, M. J., Dicker, S. R., Korngut, P. M., Mason, B. S., Reese, E. D., Sarazin, C. L., Sievers, J., Sun M., & Young, A. 2011, *Memorie della Societa Astronomica Italiana*, **82**, 485–488
- \* “Probing Cluster Cores through High Resolution Sunyaev-Zel’dovich Imaging from MUSTANG and the GBT,” Korngut, P., Dicker, S., Reese, E. D., Mason, B. S., Devlin, M. J., Mroczkowski, T., Sarazin, C. L., & Sun, M. 2011, *Bulletin American Astronomical Society*, **43**, 227.05
- “The Gas Dynamics of NGC 4472 Revealed by XMM-Newton,” Kraft, R. P., Forman, W. R., Jones, C., Nulsen, P. E. J., Hardcastle, M. J., Raychaudhury, S., Evans, D. A., Sivakoff, G., & Sarazin, C. 2011, *Astrophysical Journal*, **727**, 41 (13 pages)
- “The Lack of Diffuse, Non-thermal Hard X-ray Emission in the Coma Cluster: The Swift Burst Alert Telescope’s Eye View,” Wik, D. R., Sarazin, C. L., Finoguenov, A., Baumgartner, W. H., Mushotzky, R., Okajima, T., Tueller, J., & Clarke, T. E. 2011, *Astrophysical Journal*, **727**, 119 (17 pages)
- “X-ray Signatures of Non-Equilibrium Ionization Effects in Galaxy Cluster Accretion Shock Regions,” Wong, K.-W., Sarazin, C. L., & Ji, L. 2011, *Astrophysical Journal*, **727**, 126 (12 pages)
- “The Pressure Profiles of Hot Gas in Local Galaxy Groups,” Sun, M., Sehgal, N., Voit, G. M., Donahue, M., Jones, C., Forman, W., Vikhlinin, A., & Sarazin, C. 2011, *Astrophysical Journal Letters*, **727L**, 49 (4 pages)
- “Investigating Accretion Disk — Radio Jet Coupling Across the Stellar Mass Scale,” Miller-Jones, J., Sivakoff, G., Altamirano, D., Kording, E., Krimm, H., Maitra, D., Remillard, R., Russell, D., Tudose, V., Dhawan, V., Fender, R., Heinz, S., Markoff, S., Migliari, S., Rupen, M., & Sarazin, C. 2011, in *Proc. IAU Symp. 275, Jets at All Scales*, ed. G. E. Romero, R. Sunyaev, & T. M. Belloni, 224–232 (arXiv:1010.3062)
- \* “EVLA Radio Detections of MAXI J1836-194 Suggest it is a Black Hole X-ray Binary,” Miller-Jones, J. C. A., Sivakoff, G. R., Rupen, M. P., Altamirano, D., Sarazin, C. L., & JACPO T Collaboration 2011, *Astronomer’s Telegram*, **3628**, 1

- \* “Sloshing, Shocks, and Bubbles in the Cool Core Cluster Abell 2052,” Blanton, E. L., Randall, S. W., Clarke, T. E., Sarazin, C. L., McNamara, B. R., Douglass, E. M., & McDonald M. 2011, *Bulletin American Astronomical Society*, **218**, 228.22
- “MUSTANG High Angular Resolution Sunyaev-Zel’dovich Effect Imaging of Sub-Structure in Four Galaxy Clusters,” Korngut, P. M., Dicker, S. R., Reese, E. D., Mason, B. S., Devlin, M. J., Mroczkowski, T., Sarazin, C. L., Sun M., & Sievers, J. 2011, *Astrophysical Journal*, **734**, 10 (17 pages)
- “A Very Deep Chandra Observation of Abell 2052: Bubbles, Shocks, and Sloshing,” Blanton, E. L., Randall, S. W., Clarke, T. E., Sarazin, C. L., McNamara, B. R., Douglass, E. M., & McDonald M. 2011, *Astrophysical Journal*, **737**, 99B (21 pages)
- \* “Chandra’s Clear View of the Structure of Clusters,” Sarazin, Craig L. 2011, in *Structure in Clusters and Groups of Galaxies in the Chandra Era*, ed. J. Vrtilik (Cambridge: SAO), 35
- “Basic Properties of Clusters of Galaxies and the Physics of the Intracluster Gas,” Sarazin, C. L. 2011, in *Astrophysics of Galaxy Clusters: Proceedings of the International School of Physics “Enrico Fermi”*, ed. A. Cavaliere & Y. Rephaeli (Amsterdam: IOS), 1–49
- \* “Deep Chandra and XMM-Newton observations of NGC 4472,” Kraft, R., Forman, W., Jones, C., Nulsen, P., Randall, S., Evans, D., Hardcastle, M., Sarazin, C., Sivakoff, G., Raychaudhury, S. 2011, in *The X-ray Universe 2011* ed. A. Pollack, M. Ehle, C. Hernandez, J.-U. Ness, N. Scharrel, & M. Stuhlinger (Madrid: ESO), 90 (16 pages)
- \* “Luminosity Functions of LMXBs in Different Stellar Environments,” Zhang, Z., Gilfanov, M., Voss, R., Sivakoff, G. R., Kraft, R. P., Brassington, N. J., Kundu, A., Jordán, A., & Sarazin, C. 2011, in *The X-ray Universe 2011* ed. A. Pollack, M. Ehle, C. Hernandez, J.-U. Ness, N. Scharrel, & M. Stuhlinger (Madrid: ESO), 117 (12 pages)
- “The 400d X-ray Survey: Weak Lensing Mass Estimates For Distant X-Ray Clusters Of Galaxies,” Israel, H., Reiprich, T., Erben, T., Hudson, D., Schneider, P., Vikhlinin, A., Sarazin, C., & Rines, K. 2012, in *Dark Energy* (4 pages)
- “Luminosity Functions of LMXBs in Different Stellar Environments,” Zhang, Z., Gilfanov, M., Voss, R., Sivakoff, G. R., Kraft, R. P., Brassington, N. J., Kundu, A., Jordán, A., & Sarazin, C. 2011, *Astronomy & Astrophysics*, **533**, A33 (15 pages)
- \* “Non-Equilibrium Processes in Galaxy Cluster Accretion Shock Regions,” Wong, K.-W., Sarazin, C. L., Ji, L., & Wik, D. R. 2011 in *Monsters, Inc.: Astrophysics and Cosmology with Galaxy Clusters*, ed. A. Kravtsov, D. Marrone, & P. Oh, 1
- \* “Discovering d’Artagnan”, Sivakoff, Gregory R., Camilo, F., de Luca, A., Johnson, R. P., Marelli, M., Ransom, S., Ray, P., Romani, R., Sarazin, C., & Saz Parkinson, P. 2011, *Bulletin American Astronomical Society*, **218**, 12.4209
- “Suzaku Observations of Iron K-lines from the Intracluster Medium of the Coma Cluster,” Sato, T., Matsushita, K., Ota, N., Sato, K., Nakazawa, K., & Sarazin, C. L. 2011, *Publications of the Astronomical Society of Japan*, **63**, S991–1007

- \* “Abell 665: A Crucial Test to Understand the Thermal and Non Thermal Cluster Properties,” Govoni, F., Sarazin, C., Sun, M., Wik, D., Markevitch, M., Feretti, L., Giovannini, G., & Vacca, V. 2011, in *Analisi Dati per l’Astrofisica delle Alte Energie e la Cosmologia delle Strutture Formate*, 1–20
  
- “Feedback and Environmental Effects in Elliptical Galaxies,” Sarazin, C. L. 2012, in *Hot Interstellar Matter in Elliptical Galaxies*, ed. D.-W. Kim & S. Pellegrini (Heidelberg: Springer Astrophysics and Space Science Library 378), 55–82
  
- \* “Searching For Non-thermal X-rays In The Brightest X-ray And Radio Galaxy Clusters,” Wik, D. R., Sarazin, C. L., Zhang, Y.-Y., Baumgartner, W. H., Mushotzky, R. F., Tueller, J., & Clarke, T. E. 2012, *Bulletin American Astronomical Society*, **219**, 207.02
  
- \* “Radio and X-ray Interactions in the Core of Abell 2029,” Clarke, T. E., Blanton, E. L., & Sarazin, C. L. 2012, in *Royal Society Meeting on Clusters of Galaxies*, 1
  
- \* “Caught in the Act: Disc-Jet Coupling in the 2009 Outburst of the Black Hole Candidate H1743-322,” Sivakoff, G. R., Miller-Jones, J. C. A., Altamirano, C., Coriat, M., Corbel, S., Dhawan, V., Krimm, A., Remillard, R. A., Rupen, M. P., Russell, D. M., Fender, R. P., Heinz, S., Koerding, E., Maitra, D., Markoff, S., Migliari, S., Sarazin, C. L., & Tudose, V. 2012, *Bulletin American Astronomical Society*, **219**, 249.02
  
- \* “MUSTANG2: High-resolution SZE Imaging of Galaxy Clusters with the GBT,” Young, A. Aguirre, J., Devlin, M. J., Dicker, S. R., Korngut, P. M., Mason, B. S., Mroczkowski, T., Reese, E. D., Romero, C., Rosenman, M. Sarazin, C. L., Sievers, J., & Sun M. 2012, *Bulletin American Astronomical Society*, **219**, 446.08
  
- \* “Chandra Observations of the Effect of Radio Sources on the ICM in Cooling Flow Clusters,” Blanton, E. L., Sarazin, C. L., Clarke, T. E., & McNamara, B. R. 2012, in *Modeling the Intergalactic and Intracluster Medium*, ed. V. Antonuccio-Delogu, S. Borgani, & A. Ferrara, 1
  
- “The Swift Burst Alert Telescope Perspective on Non-thermal Emission in HIFLUGCS Galaxy Clusters,” Wik, D. R., Sarazin, C. L., Zhang, Y.-Y., Baumgartner, W. H., Mushotzky, R. F., Tueller, J., Okajima, T., & Clarke, T. E. 2012, *Astrophysical Journal*, **748**, 67 (26 pages)
  
- \* “Chandra Centaurus A Very Large Program (VLP) Results,” Worrall, D. M., Birkinshaw, M., Kraft, R. P., Sivakoff, G. R., Jordan, A., Hardcastle, M. J., Brassington, N. J., Croston, J. H., Evans, D. A., Forman, W. R., Harris, W. E., Jones, C., Juett, A. M., Murray, S. S., Nulsen, P. E. J., Raychaudhury, S., Sarazin, C. L., & Woodley K. A. 2012, *Proceedings of the United Kingdom National Astronomy Meeting*, 1
  
- “Disc-Jet Coupling in the 2009 Outburst of the Black Hole Candidate H1743-322”, Miller-Jones, J., Sivakoff, G., Altamirano, D., Corbel, S., Coriat, M., Dhawan, V., Krimm, H., Remillard, R., Rupen, M., Russell, D., Fender, R., Heinz, S., Kording, E., Maitra, D., Markoff, S., Migliari, S., Sarazin, C. & Tudose, V. 2012, *Monthly Notices Royal Astronomical Society*, **421**, 468–485

- “A Transient Sub-Eddington Black Hole X-ray Binary Candidate in the Dust Lanes of Centaurus A,” Burke, M. J., Raychaudhury, S., Kraft, R. P., Brassington, N. J., Hardcastle, M. J., Goodger, J. L., Sivakoff, G. R., Forman, W. R., Jones, C., Woodley, K. A., Murray, S. S., Kainulainen, J., Birkinshaw, M., Croston, J. H., Evans, D. A., Gilfanov, M., Jordan, A., Sarazin, C. L., Voss, R., Worrall, D. M., & Zhang, Z. 2012, *Astrophysical Journal*, **749**, 112 (8 pages)
- \* “X-ray Observations of Shocks and Radio Emission in Abell 3667, Abell 665, Abell 2061, and the Cygnus-A Cluster,” Sarazin, C., Finoguenov, A., Wik, D., Clarke, T., Sun, M., Nakazawa, K., Govoni, F., Vacca, V., Pimbblet, K. & Fujita, Y. 2012, in *Galaxy Clusters as Giant Cosmic Laboratories*, ed. J.-U. Ness (Madrid, Spain: ESA), 25
- \* “A Comparison of X-ray, Radio, and Lensing Results with GBT+MUSTANG Observations of the Sunyaev-Zeldovich Effect,” T. Mroczkowski, M. Devlin, S. Dicker, E. Reese, A. Young, B. Mason, C. Romero, C. Sarazin, J. Sievers, & J. Sayers 2012, in *Galaxy Clusters as Giant Cosmic Laboratories*, ed. J.-U. Ness (Madrid, Spain: ESA), 48
- \* “SLAM High Resolution Numerical Simulations of the SZ Signatures of Cluster Mergers,” Sarazin, C. L., Chatzikos, M., & O’Shea, B. W. 2012, *Bulletin American Astronomical Society*, **220**, 111.06
- \* “Chandra Study of the Ultra-Steep Spectrum Radio Relic Cluster Abell 2443,” Clarke, T. E., Randall, S. W., Blanton, E. L., & Sarazin, C. L. 2012, *Bulletin American Astronomical Society*, **220**, 435.07
- \* “A Comparison Of X-ray, Radio, And Lensing Results With GBT+MUSTANG Observations Of The Sunyaev-Zel’dovich Effect In Galaxy Clusters,” Mroczkowski, T., Devlin, M. J., Dicker, S. R., Korngut, P. M., Mason, B. S., Reese, E. D., Romero, C., Sarazin, C. L., Sun, M., Young, A., & CLASH Collaboration 2012, *Bulletin American Astronomical Society*, **220**, 507.7
- \* “High Resolution SZE Measurements of CLASH Clusters With MUSTANG,” Romero, C., Mason, B. S., Mroczkowski, T., Dicker, S. R., Young, A. Reese, E. D., Devlin, M. J., Korngut, P. M., Sarazin, C. L., Sun, M., & CLASH Collaboration 2012, *Bulletin American Astronomical Society*, **220**, 524.13
- “Multiphase Signatures of AGN Feedback in Abell 2597,” Tremblay, G. R., ODea, C. P., Baum, S. A., Clarke, T. E., Sarazin, C. L., Bregman, J. N., Combes, F., Donahue, M., Edge, A. C., Fabian, A. C., Ferland, G. J., McNamara, B. R., Mittal, R., Oonk, J. B. R., Quillen, A. C., Russell, H. R., Sanders, J. S., Salomé, P., Voit, G. M., Wilman, R. J., & Wise, M. W. 2012, *Monthly Notices Royal Astronomical Society*, **424**, 1026–1041
- “Residual Cooling and Persistent Star Formation Amid AGN Feedback in Abell 2597,” Tremblay, G. R., ODea, C. P., Baum, S. A., Clarke, T. E., Sarazin, C. L., Bregman, J. N., Combes, F., Donahue, M., Edge, A. C., Fabian, A. C., Ferland, G. J., McNamara, B. R., Mittal, R., Oonk, J. B. R., Quillen, A. C., Russell, H. R., Sanders, J. S., Salomé, P., Voit, G. M., Wilman, R. J., & Wise, M. W. 2012, *Monthly Notices Royal Astronomical Society*, **424**, 1042–1060
- \* “The Merger Shock in Abell 3667 and the Origin of the Radio Relic,” Sarazin, C. L. 2012, in *Half a Century of X-ray Astronomy*, ed. I. Georgantopoulos & M. Plionis (Athens: Univ. Athens), 18–19

- \* “AGN in Clusters of Galaxies: Feedback, Sloshing, and Lobe Bending,” Blanton, Elizabeth, Randall, Scott, Clarke, Tracy, Sarazin, Craig, McNamara, Brian, Douglass, E. M., Wing, Joshua, Paterno-Mahler, Rachel, Brodwin, Mark, & Ashby, Matt 2012, in *Half a Century of X-ray Astronomy*, ed. I. Georgantopoulos & M. Plionis (Athens: Univ. Athens), 63–64
- “The 400d Galaxy Cluster Weak Lensing Programme: II: Weak Lensing Study of Seven Clusters with MMT/Megacam,” Israel, H., Erben, T., Reiprich, T., Vikhlinin, A., Sarazin, C., & Schneider, P. 2012, *Astronomy & Astrophysics*, **546**, A79 (31 pages)
- “A Multi-Wavelength Study of the Sunyaev-Zeldovich Effect in the Triple-Merger Cluster MACS J0717.5+3745 with MUSTANG and Bolocam,” Mroczkowski, T., Dicker, S. R., Sayers, J., Reese, E. D., Mason, B. S., Czakon, N., Romero, C., Young, A. Devlin, M. J., Golwala, S., Korngut, P. M., Sarazin, C. L., Bock, J., Koch, P. Lin, K.-Y., Molnar, S., Umetsu, K. & Zemcov, M., 2012, *Astrophysical Journal*, **761**, 47 (15 pages)
- \* “Chandra X-ray Observations of Low Mass X-ray Binary Candidates in S0 Galaxies,” Hsu, D. C., Sarazin, C. L., Sivakoff, G. R., Jordán, A., & Irwin, J. A. 2013, *Bulletin American Astronomical Society*, **221**, 142.27
- \* “Ram-Pressure Stripping of Molecular Gas and Dust in Nearby Cluster Galaxies,” Sivanandam, S., Rieke, M. J., Rieke, G., Sun, M., & Sarazin, C. L. 2013, *Bulletin American Astronomical Society*, **221**, 226.02
- \* “A Chandra X-ray Observation of the Galaxy Cluster Abell 3653: The Origin of Rapidly Moving BCG Galaxies,” Mead, Adrian T. , Sarazin, Craig L., Pimblet, Kevin, Roseboom, I., & Fujita, Yutaka 2013, *Bulletin American Astronomical Society*, **221**, 243.01
- \* “The Merger Dynamics of the Abell 2061 Cluster and the Origin of the Radio Relics and Halos,” Hogge, Taylor G., Sarazin, Craig L., & Wik, Daniel R. 2013, *Bulletin American Astronomical Society*, **221**, 243.04
- “Merger Shocks in Abell 3667 and the Cygnus A Cluster,” Sarazin, Craig L., Finoguenov, Alexis, & Wik, Daniel R. 2013, *Astronomische Nachrichten*, **334**, 346–349
- “Spectral Properties of X-ray Binaries in Centaurus A,” Burke, M. J., Raychaudhury, S., Kraft, R. P., Maccarone, T., Brassington, N. J., Hardcastle, M. J., Kainulainen, J., Woodley, K. A., Goodger, J. L., Sivakoff, G. R., Forman, W. R., Jones, C., Murray, S. S., Birkinshaw, M., Croston, J. H., Evans, D. A., Gilfanov, M., Jordan, A., Sarazin, C. L., Voss, R., Worrall, D. M., & Zhang, Z. 2013, *Astrophysical Journal*, **766**, 88 (15 pages)
- “An Evolving Compact Jet in the Black Hole X-ray Binary MAXI J1836–194,” Russell, D. M., Russell, T. D., Miller-Jones, J. C. A., O’Brien, K., Soria, R., Sivakoff, G. R., Slavenblair, T., Lewis, F., Markoff, S., Homan, J., Altamirano, D., Curran, P. A., Rupen, M. P., Belloni, T. M., Cadolle Bel, M., Casella, P., Corbel, S., Dhawan, V., Fender, R. P., Gallo, E., Gandhi, P., Heinz, S., Kōrding, E. G., Krimm, H. A., Maitra, D., Migliari, S., Remillard, R. A., Sarazin, C. L., Shahbaz, T., & Tudose, V. 2013, *Astrophysical Journal Letters*, **768**, L35 (6 pages)

- “The Burst Cluster: Dark Matter in a Cluster Merger Associated with the Short Gamma-Ray Burst, GRB050509B,” Dahle, H., Sarazin, C. L., Lopez, L. A., Kouveliotou, C., Patel, S. K., Rol, E., van der Horst, A. J., Fynbo, J., Wijers, R. A. M. J., Burrows, D. N., Gehrels, N., Grupe, D., Ramirez-Ruiz, E., & Michalowski, M. J. 2013, *Astrophysical Journal*, **772**, 23 (15 pages)
- “Chandra View of the Ultra-Steep Spectrum Radio Source in Abell 2443: Merger Shock-Induced Compression of Fossil Radio Plasma?,” Clarke, T. E., Randall, S. W., Sarazin, C. L., Blanton, E., & Giacintucci, S., 2013, *Astrophysical Journal*, **772**, 84 (12 pages)
- “Suzaku X-ray Observations of the Accreting Group of Galaxies NGC 4839 and the Radio Relic in Coma Cluster,” Akamatsu, H., Inoue, S., Sato, T., Matsusita, K., Ishisaki, Y., & Sarazin, C. L. 2013, *Publications Astronomical Society Japan*, **65**, 89 (14 pages)
- “A Multi-Wavelength View of Cooling vs. AGN Heating in the X-ray Luminous Cool-Core of Abell 3581,” Canning, R. E. A., Sun, M., Sanders, J. S., Clarke, T., Fabian, A. C., Giacintucci, S., Vir Lal, D., Werner, N., Allen, S. W., Donahue, M., Johnstone, R. M., Nulsen, P. E. J., & Sarazin, C. L. 2013, *Monthly Notices Royal Astronomical Society*, **435**, 1108–1125
- “The Narrow X-Ray Tail of ESO 137-002 In Abell 3627,” Zhang, B., Sun, M., Ji, L., Roediger, E., Nulsen, P., Sarazin, C. L., Forman, W., Donahue, M., & Voit, M. 2013, *Astrophysical Journal*, **777**, 122 (13 pages)
- \* “MUSTANG and MUSTANG 1.5: High-Resolution Measurements of the Sunyaev-Zel’dovich Effect in Galaxy Clusters,” Young, A., Romero, C., Dicker, S., Mason, B. S., Mroczkowski, T., Reese, E. D., Sarazin, C. L., Sayers, J., Czakon, N. G., Devlin, M. J., Korngut, P., & Sievers, J. 2014, *Bulletin American Astronomical Society*, **223**, 208.02
- \* “Quantifying Substructure Measures in X-ray Images of Galaxy Cluster Mergers with SLAM,” Chatzikos, M., Sarazin, C. L., & O’Shea, B. W. 2014, *Bulletin American Astronomical Society*, **223**, 412.06
- \* “X-ray and Radio Results for Abell 2443, a Sloshing Galaxy Cluster Hosting an Ultra-Steep Spectrum Radio Source,” Mroczkowski, T., Clarke, T. E., Randall, S. W., Sarazin, C. L., Blanton, E. L., Giacintucci, S., Intema, H., & ZuHone, J. A. 2014, *Bulletin American Astronomical Society*, **223**, 431.02
- “Cold Gas Dynamics in Hydra-A: Evidence for a Rotating Disk,” Hamer, S. L., Edge, A. C., Swinbank, A. M., Oonk, J. B. R., Mittal, R., McNamara, B. R., Russell, H. R., Bremer, M., Combes, F., Fabian, A. C., Nesvadba, N. P. H., ODea, C. P., Baum, S. A., Salomé, P., Tremblay, G., Donahue, M., Ferland, G. J., & Sarazin, C. L. 2014, *Monthly Notices Royal Astronomical Society*, **437**, 862–878
- “The 400d Galaxy Cluster Survey Weak Lensing Programme: III: Evidence for Consistent WL and X-ray Masses at  $z \approx 0.5$ ,” Israel, H., Reiprich, T., Erben, T., Massey, R., Sarazin, C., Schneider, P., & Vikhlinin, A. 2014, *Astronomy & Astrophysics*, **564**, A129 (15 pages)
- \* “A Wild Ride for Abell 2443: A High Impact Velocity Merger with a Shock, Cold Front, and Relic,” Clarke, Tracy, Mroczkowski, Tony, Randall, Scott, Sarazin, Craig, Intema, Huib, Giacintucci, Simona, & Blanton, Elizabeth 2014, in *The X-ray Universe 2014*, ed. J.-U. Ness (Madrid; ESAC), 144



- \* “XMM-Newton and Chandra Observations of the Remarkable Dynamics of the Intracluster Medium and Radio Sources in the Clusters Abell 2061, 2626, and 3667,” Sarazin, Craig, Hogge, Taylor, Chatzikos, Marios, Wik, Daniel, Clarke, Tracy, Giacintucci, Simona, Wong, Ka-Wah, Gitti, Myriam, & Finoguenov, Alexis 2014, in *The X-ray Universe 2014*, ed. J.-U. Ness (Madrid; ESAC), 156
- \* “Distributed Heating and Disruption of a Cool Core through Gas Sloshing: Abell 3581,” Canning, Rebecca, Sun, Ming, Sanders, Jeremy, Clarke, Tracy E., Fabian, Andrew C, Giacintucci, Simona, Lal, Dharam, Werner, Norbert, Allen, Steven W., Donahue, Megan, Edge, Alastair, Johnstone, Roderick, Nulsen, Paul, Salome, Philippe, & Sarazin, Craig L. 2014, *Bulletin American Astronomical Society*, **223**, 111.06
- \* “The Physical State of the Hot and Cool Gas in Elliptical and BCG Galaxies,” Sarazin, Craig L. 2014, in *The X-ray View of Galaxy Ecosystems*, ed. P. Green (Cambridge; SAO), 29
- “X- and Gamma-Ray Pulsations of the Nearby Radio-Faint PSR J1741–2054,” Marelli, M., Belfiore, A., Saz Parkinson, P., Caraveo, P., De Luca, A., Sarazin, C. L., Salvetti, D., Sivakoff, G. R., & Camilo, F. 2014, *Astrophysical Journal*, **790**, 51 (7 pages)
- \* “Merger Activity and Radio Emission Within A2061,” Bailey, Avery, Sarazin, Craig L., Clarke, Tracy E., Chatzikos, Marios, Hogge, Taylor, Wik, Daniel R., Rudnick, Lawrence, Farnsworth, Damon, Van Weeren, Reinout J., & Brown, Shea 2015, *Bulletin American Astronomical Society*, **225**, 252.19
- \* “High Resolution Cluster Pressure Profile Measurements with MUSTANG and Bolocam,” Romero, C., Mason, B. S., Sayers, J., Young, A. Dicker, S. R., Mroczkowski, T., Reese, E. D., Sarazin, C. L., Czakon, N., Devlin, M., & Korngut, P. M., 2015, *Bulletin American Astronomical Society*, **225**, 418.04
- “Sub-mm Jet Properties of the X-ray Binary Swift J1745–26,” Tetarenko, A., Sivakoff, G. R., Miller-Jones, J. C. A., Curran, P.A., Russell, T. D., Coulson, I. M., Heinz, S., Maitra, D., Markoff, S., Migliari, S., Petitpas, G. R., Rupen, M. P., Rushton, A., Russell, D. M., & Sarazin, C. L. 2015, *Astrophysical Journal*, **805**, id 30, pp 10, DOI 10.1088/0004-637X/805/1/30
- “Radio Monitoring of the Hard State Jets in the 2011 Outburst of MAXI J1836–194,” Russell, T. D., Miller-Jones, J. C. A., Curran, P. A., Soria, R., Altamirano, D., Corbel, S., Coriat, M., Moin, A., Russell, D. M., Sivakoff, G. R., Slaven-Blair, T., Belloni, T. M., Fender, R. P., Heinz, S., Jonker, P. G., Krimm, H. A., Körding, E. G., Maitra, D., Markoff, S., Middleton, M., Migliari, S., Remillard, R. A., Rupen, M. P., Sarazin, C. L., Tetarenko, A., Torres, M. A. P., Tudose, V., & Tzioumis, A. K. , 2015, *Monthly Notices Royal Astronomical Society*, **450**, id 1745–1759, 15 pp, DOI 10.1093/mnras/stv723
- “Galaxy Cluster Pressure Profiles as Determined by Sunyaev–Zel’dovich Effect Observations with MUSTANG and Bolocam. I. Joint Analysis Technique,” Romero, C., Mason, B. S., Sayers, J., Young, A. Mroczkowski, T., Clarke, T. E. Sarazin, C. L., Sievers, J., Dicker, S. R., Reese, E. D., Czakon, N., Devlin, M., Korngut, P. M., & Golwala, S. 2015, *Astrophysical Journal*, **807**, id 121, 11 pp, DOI 10.1088/0004-637X/807/2/121

- “Measurements of the Sunyaev-Zel’dovich Effect in MACS J0647.7+7015 and MACS J1206.2–0847 at High Angular Resolution with MUSTANG,” Young, A. Mroczkowski, T., Romero, C., Sayers, J., Balestra, I., Clarke, T. E. Czakon, N., Devlin, M., Dicker, S. R., Ferrari, C., Girardi, M., Golwala, S., Intema, H., Korngut, P. M., Mason, B. S., Mercurio, A., Nonino, M., Reese, E. D., Rosati, P., Sarazin, C. L., & Umetsu, K. 2015, *Astrophysical Journal*, **809**, id 185, 14 pp, DOI 10.1088/0004-637X/809/2/185
- \* “Probing the Outskirts of Strongly Merging Double Clusters with X-ray Observations,” Randall, S., Bulbul, E., Paterno-Mahler, R., Jones, C., Forman, W., Miller, E. D., Murray, S., Sarazin, C., & Blanton, E. L. 2015, IAU General Assembly, **29**, id 2255653, 1 pp
- \* “Sloshing, Shocks, and Bubbles in Clusters of Galaxies,” Blanton, E. L., Paterno-Mahler, R., Randall, S., Clarke, T., Sarazin, C., McNamara, B., Golden-Marx, E., Ashby, M. L. N., Wing, J., Douglass, E., McDonald, M., & Brodwin, M. 2015, IAU General Assembly, **29**, id 2257563, 1 pp
- “Radio Polarimetry as a Probe of Unresolved Jets: The 2013 Outburst of XTE J1908+094,” Curran, P. A., Miller-Jones, J. C. A., Rushton, A., Pawar, D. D., Anderson, G. E., Altamirano, D., Krimm, H. A., Broderick, J. W., Belloni, T. M., Fender, R. P., Körding, E. G., Maitra, D., Markoff, S., Migliari, S., Rumsey, C., Rupen, M. P., Russell, D. M., Russell, T. D., Sarazin, C. L., Sivakoff, G. R., Soria, R., Tetarenko, A., Titterington, D., & Tudose, V. 2015, *Monthly Notices Royal Astronomical Society*, **451**, id 3975–3985, 11pp, DOI 10.1093/mnras/stv1252
- \* “High Resolution SZE Imaging of Galaxy Clusters with MUSTANG & MUSTANG-2,” Mason, B. S., Romero, C., Dicker, S. R., Mroczkowski, T., Stanchfield, S., Sayers, J., Czakon, N., Sarazin, C. L., Golwala, S., & Devlin, M. J. 2016, *Bulletin American Astronomical Society*, **227**, id 439.04, 1 pp
- “Probing the Outskirts of Strongly Merging Galaxy Cluster A1750,” Bulbul, Esra, Randall, Scott W., Bayliss, Matthew, Miller, Eric, Andrade-Santos, Felipe, Johnson, Ryan, Bautz, Mark, Blanton, Elizabeth, Forman, William R., Jones, Christine, Murray, Steve, Sarazin, Craig L., and Ezer, Cemile 2016, *Astrophysical Journal*, **818**, id 131, 19 pp, 10.3847/0004-637X/818/2/131
- “LOFAR, VLA, and Chandra Observations of the Toothbrush Galaxy Cluster,” van Weeren, R. J., Brunetti, G., Brüggén, M., Andrade-Santos, F., Ogorean, G. A., Williams, W. L., Röttgering, H. J. A., Dawson, W. A., Forman, W. R., de Gasperin, F., Hardcastle, M. J., Jones, C., Miley G. K., Rafferty, D. A., Rudnick, L., Sabater, J., Sarazin, C. L., Shimwell, T. W., Bonafede, A., Best, P. N., Bîrzan, L., Cassano, R., Chy.uzy, K. T., Croston, J. H., Dijkema, T. J., Enßlin, T., Ferrari, C., Heald, G., Hoeft, M., Horellou, C., Jarvis, C., Kraft, R. P., Mevius, M., Intema, H. T., Murray, S. S., Orrú, E., Pizzo, R., Sridhar, S. S., Simionescu, A., Stroe, A., van der Tol, S., and White, G. J. 2016, *Astrophysical Journal*, **818**, id 204, 19 pp, DOI 10.3847/0004-637X/818/2/204
- “A Strong Merger Shock in Abell 665,” Dasadia, S., Sun, M., Sarazin, C., Morandi, A., Markevitch, M., Wik, D., Feretti, L., Giovannini, G., Govoni, F., & Vacca V. 2016, *Astrophysical Journal Letters*, **820**, id L20, 5 pp, DOI 10.3847/2041-8205/820/1/L20

- “LOFAR Facet Calibration,” van Weeren, R. J., Williams, W. L., Hardcastle, M. J., Shimwell, T. W., Rafferty, D. A., Sabater, J., Heald, G., Sridhar, S. S., Dijkema, T. J., Brunetti, G., Brüggem, M., Andrade-Santos, F., Ogrean, G. A., Röttgering, H. J. A., Dawson, W. A., Forman, W. R., de Gasperin, F., Jones, C., Miley G. K., Rudnick, L., Sarazin, C. L., Bonafede, A., Best, P. N., Birzan, L., Cassano, R., Chy.uzy, K. T., Croston, J. H., Enßlin, T., Ferrari, C. Hoeft, M., Horellou, C., Jarvis, C., Kraft, R. P., Mevius, M., Intema, H. T., Murray, S. S., Orrú, E., Pizzo, R., Simionescu, A., Stroe, A., van der Tol, S., and White, G. J. 2016, *Astrophysical Journal Supplement*, **223**, id 2, 16 pp, DOI 10.3847/0067-0049/223/1/2
- “Exploring the Outskirts of the Galaxy Cluster Merger A1750 Along the Putative Large-Scale Filament,” Bulbul, Esra, Randall, Scott W., Bayliss, Matthew, Miller, Eric, Andrade-Santos, Felipe, Johnson, Ryan, Bautz, Mark, Blanton, Elizabeth, Forman, William R., Jones, Christine, Murray, Steve, Sarazin, Craig L., and Ezer, Cemile 2016, *Bulletin American Astronomical Society, High Energy Astrophysics Division*, **15**, id 111.02, 1 pp
- \* “The Merger Dynamics of Abell 2061,” Bailey, Avery, Sarazin, Craig L., Clarke, Tracy E., Chatzikos, Marios, Hogge, Taylor, Wik, Daniel R., Rudnick, Lawrence, Farnsworth, Damon, Van Weeren, Reinout J., & Brown, Shea 2016, *Bulletin American Astronomical Society, High Energy Astrophysics Division*, **15**, id 111.04, 1 pp
- “Shocking Features in the Merging Galaxy Cluster RXJ0334.2–0111,” Dasadia, Sarthak Sun, Ming, Morandi, Andrea, Sarazin, Craig, Clarke, Tracy, Nulsen, Paul, Harris, Dan, Forman, Bill, Massaro, Francesco, & Roediger, Elke 2016, *Monthly Notices Royal Astronomical Society*, **458**, id 681–694, 14 pp, DOI 10.1093/mnras/stw291
- “The Reproducible Radio Outbursts of SS Cygni,” Russell, T. D., Miller-Jones, J. C. A., Sivakoff, G. R., Altamirano, D., O’Brien, T. J., Page, K. L., Templeton, M. R., Körding, E. G., Knigge, C., Rupen, M. P., Fender, R. P., Heinz, S., Maitra, D., Markoff, S., Migliari, S., Remillard, R. A., Russell, D. M., Sarazin, C. L., and Waagen, E. O. 2016, *Monthly Notices Royal Astronomical Society*, **460**, 3720–3732 DOI 10.1093/mnras/stw1238
- “Suzaku X-Ray Observations of the Nearest Non-Cool Core Cluster, Antlia: Dynamically Young but with Remarkably Relaxed Outskirts,” Wong, K.-W., Irwin, J. A., Wik, D. R., Sun, M., Sarazin, C. L., Fujita, Y., & Reiprich, T. H. 2016, *Astrophysical Journal*, **829**, 49, 21 pp, DOI 10.3847/0004-637X/829/1/49
- “The Co-Evolution of Galaxies, their ISM, and the ICM: The Hydrodynamics of Galaxy Transformation,” Vijayaraghavan, Rukmani, Sarazin, Craig L., & Ricker, Paul M. 2017, *Bulletin American Astronomical Society*, **229**, id 346.16, 1 pp
- “Probing WHIM around Galaxy Clusters with Fast Radio Bursts and the Sunyaev-Zel’dovich Effect,” Fujita, Y., Akahori, T., Umetsu, K., Sarazin, C. L., & Wong, K.-W. 2017, *Astrophysical Journal*, **834**, 13, 8 pp, DOI 10.3847/1538-4357/834/1/13
- “Galaxy Cluster Pressure Profiles as Determined by Sunyaev–Zel’dovich Effect Observations with MUSTANG and Bolocam. II. Joint Analysis of Fourteen Clusters,” Romero, C., Mason, B. S., Sayers, J., Mroczkowski, T., Sarazin, C. L., Donahue, M., Baldi, A., Clarke, T. E., Young, A. Sievers, J., Dicker, S. R., Reese, E. D., Czakon, N., Devlin, M., Korngut, P. M., & Golwala, S. 2017, *Astrophysical Journal*, in press (astro-ph 1608.03980)

- \* “Hitting the JACPOT: Current & Future Probes of the Accretion Disk — Radio Jet Coupling of X-Ray Binaries,” Sivakoff, G. R., Miller-Jones, J. C. A., Rupen, M. P., Altamirano, D., Sarazin, C. L., & JACPOT Collaboration 2017, in *IAU Symposium 285, New Horizons in Time Domain Astronomy*, in press
  - \* “Multiplex SQUID/TES Array at Ninety GHz (MUSTANG) and Future Prospects for MUSTANG2,” Young, A. Aguirre, J., Devlin, M. J., Dicker, S. R., Korngut, P. M., Mason, B. S., Mroczkowski, T., Reese, E. D., Romero, C., Rosenman, M. Sarazin, C. L., Sievers, J., & Sun M. 2017, in *Cosmology with X-ray and Sunyaev-Zeldovich Effect Observations of Galaxy Clusters*, in press
  - \* “Radio Observations of the Merging Cluster Abell 2146,” Romero, C., Mason, B. S., Interna, H., Mroczkowski, T., Reese, E. D., Young, A., Devlin, M. J., Dicker, S. R., Korngut, P. M., Sarazin, C. L., Sun M., & Sievers, J. 2017, in *Cosmology with X-ray and Sunyaev-Zeldovich Effect Observations of Galaxy Clusters*, in press
  - \* “Reviving an Ultra Steep Spectrum Relic in the Merging Cluster Abell 2443,” Clarke, T. E., Randall, S. W., Sarazin, C. L., Blanton, E., Giacintucci, S., & Intema, H. 2017, in *Nature’s Particle Accelerators*, ed. M. Markevitch, in press
  - \* “Merger in the Ultra-Steep Spectrum Radio Cluster Abell 2443: Faster than a Speeding Bullet (Cluster)?”, Mroczkowski, T., Clarke, T., Randall, S., Giacintucci, S., Intema, H., Sarazin, C. L., & Blanton, E. 2017, in *Proceeding of Zeldovich 100th Anniversary Celebration*, in press
- “The Evaporation and Survival of Cluster Galaxies’ Coronae Part I: The Effectiveness of Isotropic Thermal Conduction Including Saturation,” Vijayaraghavan, Rukmani, & Sarazin, Craig 2017, *Astrophysical Journal*, submitted (astro-ph 11702.03971)
- “The Evaporation and Survival of Cluster Galaxies’ Coronae Part II: The Effectiveness of Anisotropic Thermal Conduction and Survival of Stripped Galactic Tails,” Vijayaraghavan, Rukmani, & Sarazin, Craig 2017, *Astrophysical Journal*, submitted
- “Deep XMM-Newton Observations of the NW Radio Relic Region of Abell 3667.” Sarazin, Craig L., Finoguenov, Alexis, Wik, Daniel R., & Clarke, Tracy E. 2017, *Astrophysical Journal*, submitted (astro-ph 1606.07433)
- “The Merger Dynamics of Abell 2061 and the Origin of the Diffuse Radio Sources,” Hogge, Taylor G., Sarazin, Craig L., & Wik, Daniel R. 2017, *Astrophysical Journal*, submitted
- “The SLAM Project: I. Description of Simulations,” Chatzikos, M., Sarazin, C. L., & O’Shea, B. W. 2017, *Astrophysical Journal*, submitted
- “Extreme Jet Ejections from the Black Hole X-ray Binary V404 Cygni,” Tetarenko, A., Sivakoff, G. R., Miller-Jones, J. C. A., Curran, P.A., Russell, T. D., Coulson, I. M., Heinz, S., Maitra, D., Markoff, S., Migliari, S., Petitpas, G. R., Rupen, M. P., Rushton, A., Russell, D. M., & Sarazin, C. L. 2017, *Monthly Notices Royal Astronomical Society*, submitted