



Steven Allen

Professor of Physics and of Particle Physics and Astrophysics

Bio

BIO

Steve Allen leads the X-ray Astronomy and Observational Cosmology (XOC) group (<https://xoc.stanford.edu/>) at Stanford, which has interests spanning the astrophysics of galaxies and galaxy clusters, studies of dark matter and dark energy, and the development of advanced detectors for future satellite missions.

ACADEMIC APPOINTMENTS

- Professor, Physics
- Professor, Particle Physics and Astrophysics

ADMINISTRATIVE APPOINTMENTS

- Department Head, LSST Science Department, SLAC National Accelerator Laboratory, (2014- present)
- Department Head, Department of Observational and Experimental Cosmology, SLAC National Accelerator Laboratory, (2005-2014)

HONORS AND AWARDS

- Sophie and Tycho Brahe Visiting Professorship, University of Copenhagen (2012)
- Bruno Rossi Prize, American Astronomical Society (2008)
- Royal Society University Research Fellowship, Royal Society (1999)
- Charles and Katherine Darwin Research Fellowship, Darwin College, Cambridge (1995)
- Postdoctoral Research Fellowship, UK Science and Engineering Research Council (1993)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, American Physical Society (2018 - present)
- Member, Lynx Science and Technology Definition Team (2016 - present)
- Member, Athena Wide Field Imager Consortium (2016 - present)
- Chair, LSST Steering Committee, SLAC (2014 - present)
- Member, Athena Science Study Team (2014 - present)
- Member, American Astronomical Society (AAS) (2006 - present)
- Associate, Dark Cosmology Center, Copenhagen (2005 - present)
- Member, Kavli Institute for Particle Astrophysics and Cosmology (2005 - present)
- Member, Institute of Physics (1993 - present)
- Member, Royal College of Science Association (1990 - present)

- DOE Point of Contact, LSST Dark Energy Science Collaboration (2015 - 2019)
- Co-chair, Clusters Working Group, LSST Dark Energy Science Collaboration (2012 - 2017)
- Member, High Energy Astrophysics Division Nomination Committee, NASA (2011 - 2012)
- Co-chair, Astro-H Cosmology Science Working Group (2010 - 2017)
- Member, Science Definition Team, International X-ray Observatory (2008 - 2011)
- Member, Chandra Users' Committee, Chandra X-ray Observatory (2008 - 2011)
- Chair, Constellation-X Large Scale Structure panel, NASA (2007 - 2008)
- Member, KIPAC Executive Committee (2006 - 2014)
- Member, Constellation-X Facility Science Team, NASA (2004 - 2008)
- Member, Constellation-X Galaxy Clusters Science panel, NASA (2004 - 2008)
- Member, Governing Body, Darwin College, Cambridge (1996 - 1999)

PROFESSIONAL EDUCATION

- B. Sc., Imperial College, University of London. , Physics (1990)
- Ph.D., University of Cambridge. , Astronomy (1995)

LINKS

- My research group: <https://web.stanford.edu/group/xoc/>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Observational astrophysics and cosmology; galaxies, galaxy clusters, dark matter and dark energy; applications of statistical methods; X-ray astronomy; X-ray detector development; optical astronomy; mm-wave astronomy; radio astronomy; gravitational lensing.

Teaching

COURSES

2023-24

- Astrophysics Laboratory: PHYSICS 301 (Spr)
- Introduction to Observational Astrophysics: PHYSICS 100 (Spr)

2022-23

- Introduction to Observational Astrophysics: PHYSICS 100 (Spr)

2021-22

- Astrophysics Laboratory: PHYSICS 301 (Spr)
- Introduction to Observational Astrophysics: PHYSICS 100 (Spr)

2020-21

- Introduction to Observational Astrophysics: PHYSICS 100 (Spr)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Tyler Anderson, Elise Darragh-Ford, Jamie McCullough, Josephine Wong

Postdoctoral Faculty Sponsor

Sanskriti Das, Artem Poliszczuk, Taweewat Somboonpanyakul, Zhefu Yu

Doctoral Dissertation Advisor (AC)

Anthony Flores, Haley Stueber, Chloe Taylor

Doctoral (Program)

Mahiro Abe, James Allen, Drew Ames, Sanha Cheong, Jason Corbin, Kevin Feigelis, Ares Hernandez, Fangze Liu, Tom Liu, Jamie McCullough, Yuka Nakato, Theo Schutt, Bahrudin Trbalic, Bingyi Wang

Publications

PUBLICATIONS

- **Improved noise performance from the next-generation buried-channel p-MOSFET SiSeROs** *JOURNAL OF ASTRONOMICAL TELESCOPES INSTRUMENTS AND SYSTEMS*
Chattopadhyay, T., Herrmann, S., Kaplan, M., Orel, P., Donlon, K., Prigozhin, G., Morris, G., Cooper, M., Malonis, A., Allen, S. W., Bautz, M. W., Leitz, C.
2023; 9 (2)
- **SPT-CL J2215-3537: A Massive Starburst at the Center of the Most Distant Relaxed Galaxy Cluster** *ASTROPHYSICAL JOURNAL*
Calzadilla, M. E., Bleem, L., McDonald, M. D., Gladders, M. B., Mantz, A. W., Allen, S. B., Bayliss, M., Eilers, A., Floyd, B., Hlavacek-Larrondo, J., Khullar, G. J., Kim, K., Mahler, et al
2023; 947 (2)
- **The Concentration-Mass relation of massive, dynamically relaxed galaxy clusters: agreement between observations and Λ CDM simulations** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
Darragh-Ford, E., Mantz, A. B., Rasia, E., Allen, S. W., Morris, R., Foster, J., Schmidt, R. W., Wenrich, G.
2023; 521 (1): 790-799
- **The Evolution and Mass Dependence of Galaxy Cluster Pressure Profiles at $0.05 \leq z \leq 0.60$ and $4 \times 10^{14} M_{\odot} \leq M(500) \leq 30 \times 10^{14} M_{\odot}$** *ASTROPHYSICAL JOURNAL*
Sayers, J., Mantz, A. B., Rasia, E., Allen, S. W., Cui, W., Golwala, S. R., Morris, R., Wan, J. T.
2023; 944 (2)
- **Chandra measurements of gas homogeneity and turbulence at intermediate radii in the Perseus Cluster** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
de Vries, M., Mantz, A. B., Allen, S. W., Morris, R., Zhuravleva, I., Canning, R. A., Ehlert, S. R., Ogorzalek, A., Simionescu, A., Werner, N.
2023; 518 (2): 2954-2970
- **BASS XXXVI. Constraining the Local Supermassive Black Hole-Halo Connection with BASS DR2 AGNs** *ASTROPHYSICAL JOURNAL*
Powell, M. C., Allen, S. W., Caglar, T., Cappelluti, N., Harrison, F., Irving, B. E., Koss, M. J., Mantz, A. B., Oh, K., Ricci, C., Shaper, R. J., Stern, D., Trakhtenbrot, et al
2022; 938 (1)
- **X-ray morphology of cluster-mass haloes in self-interacting dark matter** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
Shen, X., Brinckmann, T., Rapetti, D., Vogelsberger, M., Mantz, A., Zavala, J., Allen, S. W.
2022; 516 (1): 1302-1319
- **CMB-S4: Forecasting Constraints on Primordial Gravitational Waves** *ASTROPHYSICAL JOURNAL*
Abazajian, K., Addison, G. E., Adshead, P., Ahmed, Z., Akerib, D., Ali, A., Allen, S. W., Alonso, D., Alvarez, M., Amin, M. A., Anderson, A., Arnold, K. S., Ashton, et al
2022; 926 (1)
- **Cosmological constraints from gas mass fractions of massive, relaxed galaxy clusters** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
Mantz, A. B., Morris, R., Allen, S. W., Canning, R. A., Baumont, L., Benson, B., Bleem, L. E., Ehlert, S. R., Floyd, B., Herbonnet, R., Kelly, P. L., Liang, S., von Der Linden, et al
2022; 510 (1): 131-145
- **Very Large Array Radio Study of a Sample of Nearby X-Ray and Optically Bright Early-type Galaxies** *ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES*
Grossova, R., Werner, N., Massaro, F., Lakhchaura, K., Plsek, T., Gabanyi, K., Rajpurohit, K., Canning, R. A., Nulsen, P., O'Sullivan, E., Allen, S. W., Fabian, A.

2022; 258 (2)

- **Towards precision particle background estimation for future X-ray missions: correlated variability between Chandra ACIS and AMS**
Grant, C. E., Miller, E. D., Bautz, M. W., Foster, R., Kraft, R. P., Allen, S., Burrows, D. N., DenHerder, J. W., Nikzad, S., Nakazawa, K.
SPIE-INT SOC OPTICAL ENGINEERING.2022
- **Development and characterization of a fast and low noise readout for the next generation x-ray charge-coupled devices** *Journal of Astronomical Telescopes, Instruments, and Systems*
Chattopadhyay, T., et al
2022; 8 (2): 12
- **First results on SiSeRO devices: a new x-ray detector for scientific instrumentation** *Journal of Astronomical Telescopes, Instruments, and Systems*
Chattopadhyay, T., et al
2022; 8 (2): 12
- **Single electron Sensitive Readout (SiSeRO) X-ray detectors: Technological progress and characterization**
Chattopadhyay, T., Herrmann, S., Orel, P., Morris, R. G., Wilkins, D. R., Allen, S. W., Prigozhin, G., LaMarr, B., Malonis, A., Foster, R., Bautz, M. W., Donlon, K., Cooper, et al
SPIE-INT SOC OPTICAL ENGINEERING.2022
- **X-ray speed reading with the MCRC: a low noise CCD readout ASIC enabling readout speeds of 5 Mpixel/s/channel**
Orel, P., Herrmann, S., Chattopadhyay, T., Morris, G., Allen, S. W., Prigozhin, G. Y., Foster, R., Malonis, A., Bautz, M. W., Cooper, M. J., Donlon, K., Holland, A. D., Beletic, et al
SPIE-INT SOC OPTICAL ENGINEERING.2022
- **Mitigating the effects of particle background on the Athena Wide Field Imager** *JOURNAL OF ASTRONOMICAL TELESCOPES INSTRUMENTS AND SYSTEMS*
Miller, E. D., Grant, C. E., Bautz, M. W., Molendi, S., Kraft, R., Nulsen, P., Bulbul, E., Allen, S., Burrows, D. N., Eraerds, T., Fioretti, V., Gastaldello, F., Hall, et al
2022; 8 (1)
- **The history of metal enrichment traced by X-ray observations of high-redshift galaxy clusters** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
Flores, A. M., Mantz, A. B., Allen, S. W., Morris, R., Canning, R. A., Bleem, L. E., Calzadilla, M. S., Floyd, B. T., McDonald, M., Ruppin, F.
2021; 507 (4): 5195-5204
- **Quiescent galaxies in a virialized cluster at redshift 2: evidence for accelerated size growth** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
Noordeh, E., Canning, R. A., Willis, J. P., Allen, S. W., Mantz, A., Stanford, S. A., Brammer, G.
2021; 507 (4): 5272-5280
- **Stability of Cool Cores during Galaxy Cluster Growth: A Joint Chandra/SPT Analysis of 67 Galaxy Clusters along a Common Evolutionary Track Spanning 9 Gyr** *ASTROPHYSICAL JOURNAL*
Ruppin, F., McDonald, M., Bleem, L. E., Allen, S. W., Benson, B. A., Calzadilla, M., Khullar, G., Floyd, B.
2021; 918 (2)
- **A shock near the virial radius of the Perseus Cluster** *ASTRONOMY & ASTROPHYSICS*
Zhu, Z., Simionescu, A., Akamatsu, H., Zhang, X., Kaastra, J. S., de Plaa, J., Urban, O., Allen, S. W., Werner, N.
2021; 652
- **Spectroscopic quantification of projection effects in the SDSS redMaPPer galaxy cluster catalogue** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
Myles, J., Gruen, D., Mantz, A. B., Allen, S. W., Morris, R. G., Rykoff, E., Costanzi, M., To, C., DeRose, J., Wechsler, R. H., Rozo, E., Jeltama, T., Carrasco, et al
2021; 505 (1): 33-44
- **Measuring H-0 using X-ray and SZ effect observations of dynamically relaxed galaxy clusters** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
Wan, J. T., Mantz, A. B., Sayers, J., Allen, S. W., Morris, R., Golwala, S. R.
2021; 504 (1): 1062-1076
- **Reducing the Athena WFI charged particle background: Results from Geant4 simulations**
Grant, C. E., Miller, E. D., Bautz, M. W., Eraerds, T., Molendi, S., Keelan, J., Hall, D., Holland, A. D., Kraft, R., Bulbul, E., Nulsen, P., Allen, S., DenHerder, et al

SPIE-INT SOC OPTICAL ENGINEERING.2021

- **Identifying charged particle background events in X-ray imaging detectors with novel machine learning algorithms**
Wilkins, D. R., Allen, S. W., Miller, E. D., Bautz, M., Chattopadhyay, T., Fort, S., Grant, C. E., Herrmann, S., Kraft, R., Morris, R. G., Nulsen, P., DenHerder, J. W., Nikzad, et al
SPIE-INT SOC OPTICAL ENGINEERING.2021
- **Progress toward fast, low-noise, low-power digital CCDs for Lynx and other high-energy astrophysics missions**
Bautz, M., Burke, B., Cooper, M., Craig, D., Donlon, K., Foster, R., Grant, C. E., LaMarr, B., Leitz, C., Malonis, A., Miller, E., Prigozhin, G., Thayer, et al
SPIE-INT SOC OPTICAL ENGINEERING.2021
- **The environmental dependence of X-ray AGN activity at z similar to 0.4** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
Noordeh, E., Canning, R. A., King, A., Allen, S. W., Mantz, A., Morris, R. G., Ehlert, S., von der Linden, A., Brandt, W. N., Luo, B., Xue, Y. Q., Kelly, P.
2020; 498 (3): 4095-4108
- **A Multiwavelength Study of the Cool Core Cluster MACS J1447.4+0827** *ASTRONOMICAL JOURNAL*
Prasow-Emond, M., Hlavacek-Larrondo, J., Rhea, C. L., Latulippe, M., Gendron-Marsolais, M., Richard-Laferriere, A., Sanders, J. S., Edge, A. C., Allen, S. W., Mantz, A., von der Linden, A.
2020; 160 (3)
- **Deep XMM-Newton observations of the most distant SPT-SZ galaxy cluster** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
Mantz, A. B., Allen, S. W., Morris, R., Canning, R. A., Bayliss, M., Bleem, L. E., Floyd, B. T., McDonald, M.
2020; 496 (2): 1554-64
- **Dark Energy Survey Year 1 Results: Cosmological constraints from cluster abundances and weak lensing** *PHYSICAL REVIEW D*
Abbott, T. C., Aguena, M., Alarcon, A., Allam, S., Allen, S., Annis, J., Avila, S., Bacon, D., Bechtol, K., Bermeo, A., Bernstein, G. M., Bertin, E., Bhargava, et al
2020; 102 (2)
- **Characterization of the Particle-induced Background of XMM-Newton EPIC-pn: Short- and Long-term Variability** *ASTROPHYSICAL JOURNAL*
Bulbul, E., Kraft, R., Nulsen, P., Freyberg, M., Miller, E. D., Grant, C., Bautz, M. W., Burrows, D. N., Allen, S., Eraerds, T., Fioretti, V., Gastaldello, F., Ghirardini, et al
2020; 891 (1)
- **Galaxy Clusters Selected via the Sunyaev-Zel'dovich Effect in the SPTpol 100-square-degree Survey** *ASTRONOMICAL JOURNAL*
Huang, N., Bleem, L. E., Stalder, B., Ade, P. R., Allen, S. W., Anderson, A. J., Austermann, J. E., Avva, J. S., Beall, J. A., Bender, A. N., Benson, B. A., Bianchini, F., Bocquet, et al
2020; 159 (3)
- **The SPTpol Extended Cluster Survey** *ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES*
Bleem, L. E., Bocquet, S., Stalder, B., Gladders, M. D., Ade, P. R., Allen, S. W., Anderson, A. J., Annis, J., Ashby, M. N., Austermann, J. E., Avila, S., Avva, J. S., Bayliss, et al
2020; 247 (1)
- **An X-ray detection of star formation in a highly magnified giant arc** *NATURE ASTRONOMY*
Bayliss, M. B., McDonald, M., Sharon, K., Gladders, M. D., Florian, M., Chisholm, J., Dahle, H., Mahler, G., Paterno-Mahler, R., Rigby, J. R., Rivera-Thorsen, E., Whitaker, K. E., Allen, et al
2020; 4 (2): 159-166
- **Spectroscopic confirmation of a mature galaxy cluster at a redshift of 2** *NATURE*
Willis, J. P., Canning, R. A., Noordeh, E. S., Allen, S. W., King, A. L., Mantz, A., Morris, R. G., Stanford, S. A., Brammer, G.
2020; 577 (7788): 39-+
- **MCRC V1: development of integrated readout electronics for next generation X-ray CCD detectors for future satellite observatories** *X-Ray, Optical, and Infrared Detectors for Astronomy*
Herrmann, S., Wong, J., Chattopadhyay, T., Morris, R. G., Burke, B., Prigozhin, G., Cooper, M., Craig, D., Donlon, K., Foster, R., Malonis, A., Bautz, M., Allen, et al
2020
- **Tiny-box: a tool for the versatile development and characterization of low noise fast x-ray imaging detectors** *X-Ray, Optical, and Infrared Detectors for Astronomy*
Chattopadhyay, T., Herrmann, S., Allen, S., Hirschman, J., Morris, G., Bautz, M., Malonis, A., Foster, R., Prigozhin, G., Craig, D., Burke, B.

2020

- **Ellipticity of brightest cluster galaxies as tracer of halo orientation and weak-lensing mass bias** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
Herbonnet, R., von der Linden, A., Allen, S. W., Mantz, A. B., Modumudi, P., Morris, R., Kelly, P. L.
2019; 490 (4): 4889–97
- **Phenotypic redshifts with self-organizing maps: A novel method to characterize redshift distributions of source galaxies for weak lensing** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
Buchs, R., Davis, C., Gruen, D., DeRose, J., Alarcon, A., Bernstein, G. M., Sanchez, C., Myles, J., Roodman, A., Allen, S., Amon, A., Choi, A., Masters, et al
2019; 489 (1): 820-841
- **Methods for cluster cosmology and application to the SDSS in preparation for DES Year 1 release** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
Costanzi, M., Rozo, E., Simet, M., Zhang, Y., Evrard, A. E., Mantz, A., Rykoff, E. S., Jeltema, T., Gruen, D., Allen, S., McClintock, T., Romer, A. K., von der Linden, et al
2019; 488 (4): 4779-4800
- **Powerful AGN jets and unbalanced cooling in the hot atmosphere of IC 4296** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
Grossova, R., Werner, N., Rajpurohit, K., Mernier, F., Lakhchaura, K., Gabanyi, K., Canning, R. A., Nulsen, P., Massaro, F., Sun, M., Connor, T., King, A., Allen, et al
2019; 488 (2): 1917-1925
- **Suppressed effective viscosity in the bulk intergalactic plasma** *NATURE ASTRONOMY*
Zhuravleva, Churazov, E., Schekochihin, A. A., Allen, S. W., Vikhlinin, A., Werner, N.
2019; 3 (9): 832-837
- **Dark Energy Surveyed Year 1 results: calibration of cluster mis-centring in the redMaPPer catalogues** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
Zhang, Y., Jeltema, T., Hollowood, D. L., Everett, S., Rozo, E., Farahi, A., Bermeo, A., Bhargava, S., Giles, P., Romer, A. K., Wilkinson, R., Rykoff, E. S., Mantz, et al
2019; 487 (2): 2578-2593
- **Magnetic fields and extraordinarily bright radio emission in the X-ray faint galaxy group MRC 0116+111** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
Mernier, F., Werner, N., Bagchi, J., Simionescu, A., Boehringer, H., Allen, S. W., Jacob, J.
2019; 486 (4): 5430-5440
- **Cluster Cosmology Constraints from the 2500 deg² SPT-SZ Survey: Inclusion of Weak Gravitational Lensing Data from Magellan and the Hubble Space Telescope** *ASTROPHYSICAL JOURNAL*
Bocquet, S., Dietrich, J. P., Schrabback, T., Bleem, L. E., Klein, M., Allen, S. W., Applegate, D. E., Ashby, M. N., Bautz, M., Bayliss, M., Benson, B. A., Brodwin, M., Bulbul, et al
2019; 878 (1)
- **Cooling in the X-ray halo of the rotating, massive early-type galaxy NGC 7049** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
Juranova, A., Werner, N., Gaspari, M., Lakhchaura, K., Nulsen, P. J., Sun, M., Canning, R. A., Allen, S. W., Simionescu, A., Oonk, J. R., Connor, T., Donahue, M.
2019; 484 (2): 2886-2895
- **Sunyaev-Zel'dovich effect and X-ray scaling relations from weak lensing mass calibration of 32 South Pole Telescope selected galaxy clusters** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
Dietrich, J. P., Bocquet, S., Schrabback, T., Applegate, D., Hoekstra, H., Grandis, S., Mohr, J. J., Allen, S. W., Bayliss, M. B., Benson, B. A., Bleem, L. E., Brodwin, M., Bulbul, et al
2019; 483 (3): 2871-2906
- **A Detailed Study of the Most Relaxed SPT-selected Galaxy Clusters: Properties of the Cool Core and Central Galaxy** *ASTROPHYSICAL JOURNAL*
McDonald, M., Allen, S. W., Hlavacek-Larrondo, J., Mantz, A. B., Bayliss, M., Benson, B. A., Brodwin, M., Bulbul, E., Canning, R. A., Chiu, Forman, W. R., Garmire, G. P., Gupta, N., et al
2019; 870 (2)
- **US Contributions to the Athena Wide Field Imager**
Burrows, D. N., Allen, S., Bautz, M., Bulbul, E., Chattopadhyay, T., Erdley, J., Falcone, A. D., Grant, C. E., Herrmann, S., Hornschemeier, A., Kelly, D., Kennea, J., Kraft, et al

SPIE-INT SOC OPTICAL ENGINEERING.2019

- **Spectroscopic Confirmation of Five Galaxy Clusters at $z > 1.25$ in the 2500 deg² SPT-SZ Survey** *ASTROPHYSICAL JOURNAL*
Khullar, G., Bleem, L. E., Bayliss, M. B., Gladders, M. D., Benson, B. A., McDonald, M., Allen, S. W., Applegate, D. E., Ashby, M. N., Bocquet, S., Brodwin, M., Bulbul, E., Canning, et al
2019; 870 (1)
- **Dark Energy Survey Year 1 results: weak lensing mass calibration of redMaPPer galaxy clusters** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
McClintock, T., Varga, T. N., Gruen, D., Rozo, E., Rykoff, E. S., Shin, T., Melchior, P., DeRose, J., Seitz, S., Dietrich, J. P., Sheldon, E., Zhang, Y., von der Linden, et al
2019; 482 (1): 1352–78
- **Detection of polarized gamma-ray emission from the Crab nebula with the Hitomi Soft Gamma-ray Detector** *PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF JAPAN*
Aharonian, F., Akamatsu, H., Akimoto, F., Allen, S. W., Angelini, L., Audard, M., Awaki, H., Axelsson, M., Bamba, A., Bautz, M. W., Blandford, R., Brenneman, L. W., Brown, et al
2018; 70 (6)
- **Thermodynamic properties, multiphase gas, and AGN feedback in a large sample of giant ellipticals** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
Lakhchaura, K., Werner, N., Sun, M., Canning, R. A., Gaspari, M., Allen, S. W., Connor, T., Donahue, M., Sarazin, C.
2018; 481 (4): 4472-4504
- **The XXL Survey XVII. X-ray and Sunyaev-Zel'dovich properties of the redshift 2.0 galaxy cluster XLSSC 122** *ASTRONOMY & ASTROPHYSICS*
Mantz, A. B., Abdulla, Z., Allen, S. W., Carlstrom, J. E., Logan, C. A., Marrone, D. P., Maughan, B. J., Willis, J., Pacaud, F., Pierre, M.
2018; 620
- **Gas Perturbations in the Cool Cores of Galaxy Clusters: Effective Equation of State, Velocity Power Spectra, and Turbulent Heating** *ASTROPHYSICAL JOURNAL*
Zhuravleva, I., Allen, S. W., Mantz, A., Werner, N.
2018; 865 (1)
- **Dark Energy Survey year 1 results: Cosmological constraints from galaxy clustering and weak lensing** *PHYSICAL REVIEW D*
Abbott, T. C., Abdalla, F. B., Alarcon, A., Aleksic, J., Allam, S., Allen, S., Amara, A., Annis, J., Asorey, J., Avila, S., Bacon, D., Balbinot, E., Banerji, et al
2018; 98 (4)
- **Hitomi X-ray observation of the pulsar wind nebula G21.5-0.9** *PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF JAPAN*
Aharonian, F., Akamatsu, H., Akimoto, F., Allen, S. W., Angelini, L., Audard, M., Awaki, H., Axelsson, M., Bamba, A., Bautz, M. W., Blandford, R., Brenneman, L. W., Brown, et al
2018; 70 (3)
- **Hitomi X-ray studies of Giant Radio Pulses from the Crab pulsar.** *Publications of the Astronomical Society of Japan. Nihon Tenmon Gakkai*
Aharonian, F., Akamatsu, H., Akimoto, F., Allen, S. W., Angelini, L., Audard, M., Awaki, H., Axelsson, M., Bamba, A., Bautz, M. W., Blandford, R., Brenneman, L. W., Brown, et al
2018; 70 (2)
- **Hitomi (ASTRO-H) X-ray Astronomy Satellite** *JOURNAL OF ASTRONOMICAL TELESCOPES INSTRUMENTS AND SYSTEMS*
Takahashi, T., Kokubun, M., Mitsuda, K., Kelley, R. L., Ohashi, T., Aharonian, F., Akamatsu, H., Akimoto, F., Allen, S. W., Anabuki, N., Angelini, L., Arnaud, K., Asai, et al
2018; 4 (2)
- **ALMA observation of the disruption of molecular gas in M87** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
Simionescu, A., Tremblay, G., Werner, N., Canning, R. A., Allen, S. W., Oonk, J. R.
2018; 475 (3): 3004-3009
- **XMM-Newton X-ray and HST weak gravitational lensing study of the extremely X-ray luminous galaxy cluster Cl J120958.9+495352 ($z=0.902$)** *ASTRONOMY & ASTROPHYSICS*
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