Stanford



Adam Mantz

Physical Science Research Scientist, KIPAC

Bio

BIO

I am a research scientist in the Kavli Institute for Particle Astrophysics and Cosmology (KIPAC) at Stanford University, specifically in the X-ray and Observational Cosmology (XOC) group. My work centers around the formation and growth of clusters of galaxies, observations of the intracluster medium at X-ray and millimeter wavelengths, and the use of clusters as probes of cosmology.

ACADEMIC APPOINTMENTS

- Physical Science Research Scientist, KIPAC

PROFESSIONAL EDUCATION

- Ph.D, Stanford University , Physics (2009)
- B.A., Cornell University , Physics (2004)

LINKS

- X-ray and Observational Cosmology group: https://xoc.stanford.edu
- Kavli Institute for Particle Astrophysics and Cosmology: https://kipac.stanford.edu
- Personal website: https://sites.google.com/site/adambmantz/

Teaching

COURSES

2026-27

- Introduction to Observational Astrophysics: PHYSICS 100 (Spr)
- Statistical Methods in Astrophysics: PHYSICS 267 (Win)

2024-25

- Statistical Methods in Astrophysics: PHYSICS 267 (Aut)

Publications

PUBLICATIONS

- **Clusters Hiding under Millimeter Sources (CHUMS). I. Extreme CHUMS** *ASTROPHYSICAL JOURNAL*
  Saxena, H., Mantz, A. B., Sayers, J., Yudovich, D. G., Allen, S. W.
  2026; 1012 (1)

- **The Cluster Evolutionary Reference Ensemble at Low-z (CEREAL) Sample of Galaxy Clusters. I. X-Ray Morphological Properties and Demographics** *ASTROPHYSICAL JOURNAL*
  White, L., McDonald, M., Allen, S. W., Bautz, M. W., Calzadilla, M., Garmire, G. P., Hlavacek-Larrondo, J., Kraft, R., Mantz, A. B., Somboonpanyakul, T., Vikhlinin, A.
  2026; 1000 (2)
- **Ruminations Upon the Modeling of X-Ray Foregrounds, Backgrounds, and Faint Sources** *ASTROPHYSICAL JOURNAL*
  Mantz, A. B., Flores, A. M., Somboonpanyakul, T., Allen, S. W., Morris, R., Pan, A. Y., Stueber, H. R.
  2026; 1000 (2)
- **SPT-CL J0417-4748: A Deep Chandra Study of a Relaxed Galaxy Cluster without Central Star Formation** *ASTROPHYSICAL JOURNAL*
  Somboonpanyakul, T., Mantz, A. B., Allen, S. W., Flores, A. M., Morris, R., Stueber, H. R., Bleem, L. E., Floyd, B., Hlavacek-Larrondo, J., Kim, K. J.
  2026; 1000 (1)
- **Multiwavelength Characterization of a Dynamically Relaxed Cool Core Galaxy Cluster at z=1.5** *ASTROPHYSICAL JOURNAL*
  Flores, A. M., Mantz, A. B., Allen, S. W., Morris, R., Pan, A. Y., Somboonpanyakul, T., Stueber, H. R., McDonald, M.
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- **Measuring the Temperature of Extremely Hot Shock-heated Gas in the Major Merger MACS J0717.5+3745 with Relativistic Corrections to the Sunyaev-Zel'dovich Effect** *ASTROPHYSICAL JOURNAL*
  Vaughan, B. J., Sayers, J., Spencer, L., Swidinksi, N., Wills, R., Zemcov, M., Arthur, D., Butler, V., Feder, R. M., Klyde, D., Lovisari, L., Mantz, A., Silich, et al
  2026; 1000 (1)
- **Initial investigations of the outskirts of XLSSC 122** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
  Todd, E. B., Willis, J. P., Canning, R. E. A., Leste, O. K., Alfarsy, R., Allen, S. W., Brammer, G., Burchett, J. N., Mantz, A. B., Stanford, S. A.
  2026; 546 (3)
- **Deep Chandra Observations of the z=1.16 Relaxed, Cool-core Galaxy Cluster SPT-CL J2215-3537** *ASTROPHYSICAL JOURNAL*
  Stueber, H. R., Mantz, A. B., Allen, S. W., Flores, A. M., Morris, R., Pan, A. Y., Somboonpanyakul, T., Bleem, L. E., Calzadilla, M., Floyd, B., Hlavacek-Larrondo, J., Mcdonald, M., Sarkar, et al
  2026; 997 (2)
- **Spectroscopic Characterization of redMaPPer Galaxy Clusters with DESI** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
  Myles, J., Gruen, D., Jeltema, T., Mantz, A., Allen, S., Fu, S., Kremin, A., Aguilar, J., Ahlen, S., Bianchi, D., Brooks, D., Castander, F. J., Claybaugh, et al
  2025; 544 (2): 2080-2097
- **A 20-feature radiomic signature of triple-negative breast cancer identifies patients at high risk of death.** *NPJ breast cancer*
  Noor, H., Zheng, Y., Mantz, A. B., Zhou, R., Kozlov, A., DeMartini, W. B., Chen, S. T., Okamoto, S., Ikeda, D. M., Telli, M. L., Kurian, A. W., Ford, J. M., Vinayak, et al
  2025; 11 (1): 79
- **A Generative Model for Realistic Galaxy Cluster X-Ray Morphologies** *ASTROPHYSICAL JOURNAL*
  Benyas, M., Pfeifer, J., Mantz, A. B., Allen, S. W., Darragh-Ford, E.
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- **The Evolution of Galaxies and Clusters at High Spatial Resolution with Advanced X-ray Imaging Satellite (AXIS)** *UNIVERSE*
  Russell, H. R., Lopez, L. A., Allen, S. W., Chartas, G., Choudhury, P., Dupke, R. A., Fabian, A. C., Flores, A. M., Garofali, K., Hodges-Kluck, E., Koss, M. J., Lanz, L., Lehmer, et al
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- **Optical Photometric Indicators of Galaxy Cluster Relaxation** *ASTROPHYSICAL JOURNAL*
  Casas, M. C., Putnam, K., Mantz, A. B., Allen, S. W., Somboonpanyakul, T.
  2024; 967 (1)
- **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 ?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 <= z <= 0.60 and 4 x 10(14) M (circle dot) <= M (500) <= 30 x 10(14) M (circle dot)** *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 a 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. E. 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
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- **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.
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- **Harnessing artificial intelligence to automate delineation of volumetric breast cancers from magnetic resonance imaging to improve tumor characterization.**
  Zhou, R., Kozlov, A., Chen, S., Okamoto, S., Ikeda, D. M., DeMartini, W., Kurian, A. W., Sledge, G. W., Telli, M. L., Lee, K., Mantz, A. B., Itakura, H.
  LIPPINCOTT WILLIAMS & WILKINS.2022

- **Measurement of the Relativistic Sunyaev-Zeldovich Correction in RX J1347.5-1145** *ASTROPHYSICAL JOURNAL*
  Butler, V. L., Feder, R. M., Daylan, T., Mantz, A. B., Mercado, D., Montana, A., Portillo, S. K. N., Sayers, J., Vaughan, B. J., Zemcov, M., Zitrin, A.
  2022; 932 (1)

- **Radiomic features quantifying pixel-level characteristics of breast tumors from magnetic resonance imaging predict risk factors in triple-negative breast cancer.**
  Mantz, A. B., Zhou, R., Kozlov, A., DeMartini, W., Chen, S., Okamoto, S., Ikeda, D. M., Mattonen, S. A., Napel, S., Alkim, E., Sledge, G. W., Kurian, A. W., Liu, et al
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- **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. E. 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

- **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. E. A., Bleem, L. E., Calzadilla, M. S., Floyd, B. T., McDonald, M., Ruppin, F.
  2021; 507 (4): 5195-5204

- **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., Jeltema, 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
- **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. E. A., Bayliss, M., Bleem, L. E., Floyd, B. T., McDonald, M.
  2020; 496 (2): 1554–64
- **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
- **The Massive and Distant Clusters of WISE Survey. VI. Stellar Mass Fractions of a Sample of High-redshift Infrared-selected Clusters** *ASTROPHYSICAL JOURNAL*
  Decker, B., Brodwin, M., Abdulla, Z., Gonzalez, A. H., Marrone, D. P., O'Donnell, C., Stanford, S. A., Wylezalek, D., Carlstrom, J. E., Eisenhardt, P. R. M., Mantz, A., Mo, W., Moravec, et al
  2019; 878 (1)
- **Coping with selection effects: a Primer on regression with truncated data** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
  Mantz, A. B.
  2019; 485 (4): 4863–72
- **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
  edited by Siegmund, O. H.
  SPIE-INT SOC OPTICAL ENGINEERING.2019
- **Thermodynamic profiles of galaxy clusters from a joint X-ray/SZ analysis** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
  Shitanishi, J. A., Pierpaoli, E., Sayers, J., Golwala, S. R., Ameglio, S., Mantz, A. B., Mroczkowski, T. K., Rasia, E., Siegel, S.
  2018; 481 (1): 749–92
- **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)
- **Cold dark energy constraints from the abundance of galaxy clusters** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
  Heneka, C., Rapetti, D., Cataneo, M., Mantz, A. B., Allen, S. W., von der Linden, A.
  2018; 473 (3): 3882–94
- **The Athena WFI Science Products Module**
  Burrows, D. N., Allen, S., Bautz, M., Bulbul, E., Erdley, J., Falcone, A. D., Fort, S., Grant, C. E., Herrmann, S., Kennea, J., Klar, R., Kraft, R., Mantz, et al
  edited by DenHerder, J. W., Nikzad, S., Nakazawa, K.
  SPIE-INT SOC OPTICAL ENGINEERING.2018
- **Centre-excised X-ray luminosity as an efficient mass proxy for future galaxy cluster surveys** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
  Mantz, A. B., Allen, S. W., Morris, R., von der Linden, A.
  2018; 473 (3): 3072–79
- **The metallicity of the intracluster medium over cosmic time: further evidence for early enrichment** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
  Mantz, A. B., Allen, S. W., Morris, R., Simionescu, A., Urban, O., Werner, N., Zhuravleva, I.
  2017; 472 (3): 2877–88
- **Weighing the giants - V. Galaxy cluster scaling relations(vol 463, pg 3582, 2016)** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*

Mantz, A. B., Allen, S. W., Morris, R., von der Linden, A., Applegate, D. E., Kelly, P. L., Burke, D. L., Donovan, D., Ebeling, H.
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- **The XXL survey: First results and future** *ASTRONOMISCHE NACHRICHTEN*
  Pierre, M., Adami, C., Birkinshaw, M., Chiappetti, L., Ettori, S., Evrard, A., Faccioli, L., Gastaldello, F., Giles, P., Horellou, C., Iovino, A., Koulouridis, E., Lidman, et al
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- **A series of shocks and edges in Abell 2219** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
  Canning, R. E., Allen, S. W., APPLEGATE, D. E., Kelly, P. L., Von der Linden, A., Mantz, A., Million, E., Morris, R. G., Russell, H. R.
  2017; 464 (3): 2896-2909

- **Weighing the giants - V. Galaxy cluster scaling relations** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
  Mantz, A. B., Allen, S. W., Morris, R. G., von der Linden, A., Applegate, D. E., Kelly, P. L., Burke, D. L., Donovan, D., Ebeling, H.
  2016; 463 (4): 3582-3603

- **COSMOLOGICAL CONSTRAINTS FROM GALAXY CLUSTERS IN THE 2500 SQUARE-DEGREE SPT-SZ SURVEY** *ASTROPHYSICAL JOURNAL*
  De Haan, T., Benson, B. A., Bleem, L. E., Allen, S. W., APPLEGATE, D. E., Ashby, M. L., Bautz, M., Bayliss, M., Bocquet, S., Brodwin, M., Carlstrom, J. E., Chang, C. L., Chiu, et al
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- **A COMPARISON AND JOINT ANALYSIS OF SUNYAEV-ZEL'DOVICH EFFECT MEASUREMENTS FROM PLANCK AND BOLOCAM FOR A SET OF 47 MASSIVE GALAXY CLUSTERS** *ASTROPHYSICAL JOURNAL*
  Sayers, J., Golwala, S. R., Mantz, A. B., Merten, J., Molnar, S. M., Naka, M., Pailet, G., Pierpaoli, E., Siegel, S. R., Wolman, B.
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- **SPT-GMOS: A GEMINI/GMOS-SOUTH SPECTROSCOPIC SURVEY OF GALAXY CLUSTERS IN THE SPT-SZ SURVEY** *ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES*
  Bayliss, M. B., Ruel, J., Stubbs, C. W., Allen, S. W., APPLEGATE, D. E., Ashby, M. L., Bautz, M., Benson, B. A., Bleem, L. E., Bocquet, S., Brodwin, M., Capasso, R., Carlstrom, et al
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- **Cosmology and astrophysics from relaxed galaxy clusters - V. Consistency with cold dark matter structure formation** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
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  2016; 462 (1): 681-688

- **The XXL Survey I. Scientific motivations - XMM-Newton observing plan - Follow-up observations and simulation programme** *ASTRONOMY & ASTROPHYSICS*
  Pierre, M., Pacaud, F., Adami, C., Alis, S., Altieri, B., Baran, N., Benoist, C., Birkinshaw, M., Bongiorno, A., Bremer, M. N., Brusa, M., Butler, A., Ciliegi, et al
  2016; 592

- **The XXL Survey XIII. Baryon content of the bright cluster sample** *ASTRONOMY & ASTROPHYSICS*
  Eckert, D., Ettori, S., Coupon, J., Gastaldello, F., Pierre, M., Melin, J., Le Brun, A. M., McCarthy, I. G., Adami, C., Chiappetti, L., Faccioli, L., Giles, P., Lavoie, et al
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- **Cosmology and astrophysics from relaxed galaxy clusters - IV. Robustly calibrating hydrostatic masses with weak lensing** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
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- **A Gibbs sampler for multivariate linear regression** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
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  2016; 457 (2): 1279-1288

- **Cosmology and astrophysics from relaxed galaxy clusters - III. Thermodynamic profiles and scaling relations** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
  Mantz, A. B., Allen, S. W., Morris, R. G., SCHMIDT, R. W.

2016; 456 (4): 4020-4039

- **THE MASSIVE AND DISTANT CLUSTERS OF WISE SURVEY: MOO J1142+1527, A 10(15) M-circle dot GALAXY CLUSTER AT z=1.19** *ASTROPHYSICAL JOURNAL LETTERS*
  Gonzalez, A. H., Decker, B., Brodwin, M., Eisenhardt, P. R., Marrone, D. P., Stanford, S. A., Stern, D., Wylezalek, D., Aldering, G., Abdulla, Z., Boone, K., Carlstrom, J., Fagrelius, et al
  2015; 812 (2)

- **DEEP CHANDRA, HST-COS, AND MEGACAM OBSERVATIONS OF THE PHOENIX CLUSTER: EXTREME STAR FORMATION AND AGN FEEDBACK ON HUNDRED KILOPARSEC SCALES** *ASTROPHYSICAL JOURNAL*
  McDonald, M., McNamara, B. R., van Weeren, R. J., Applegate, D. E., Bayliss, M., Bautz, M. W., Benson, B. A., Carlstrom, J. E., Bleem, L. E., Chatzikos, M., Edge, A. C., Fabian, A. C., Garmire, et al
  2015; 811 (2)

- **New constraints on f(R) gravity from clusters of galaxies** *PHYSICAL REVIEW D*
  Cataneo, M., Rapetti, D., Schmidt, F., Mantz, A. B., Allen, S. W., Applegate, D. E., Kelly, P. L., von der Linden, A., Morris, R. G.
  2015; 92 (4)

- **A MEASUREMENT OF GRAVITATIONAL LENSING OF THE COSMIC MICROWAVE BACKGROUND BY GALAXY CLUSTERS USING DATA FROM THE SOUTH POLE TELESCOPE** *ASTROPHYSICAL JOURNAL*
  Baxter, E. J., Keisler, R., Dodelson, S., Aird, K. A., Allen, S. W., Ashby, M. L., Bautz, M., Bayliss, M., Benson, B. A., Bleem, L. E., Bocquet, S., Brodwin, M., Carlstrom, et al
  2015; 806 (2)

- **THE MASSIVE AND DISTANT CLUSTERS OF WISE SURVEY. III. SUNYAEV-ZEL'DOVICH MASSES OF GALAXY CLUSTERS AT z similar to 1** *ASTROPHYSICAL JOURNAL*
  Brodwin, M., GREER, C. H., Leitch, E. M., Stanford, S. A., Gonzalez, A. H., Gettings, D. P., Abdulla, Z., Carlstrom, J. E., Decker, B., Eisenhardt, P. R., Lin, H. W., Mantz, A. B., Marrone, et al
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- **GALAXY CLUSTER SCALING RELATIONS BETWEEN BOLOCAM SUNYAEV-ZEL'DOVICH EFFECT AND CHANDRA X-RAY MEASUREMENTS** *ASTROPHYSICAL JOURNAL*
  Czakon, N. G., Sayers, J., Mantz, A., Golwala, S. R., Downes, T. P., Koch, P. M., Lin, K., Molnar, S. M., Moustakas, L. A., Mroczkowski, T., Pierpaoli, E., Shitanishi, J. A., Siegel, et al
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- **Cosmology and astrophysics from relaxed galaxy clusters - I. Sample selection** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
  Mantz, A. B., Allen, S. W., Morris, R. G., Schmidt, R. W., von der Linden, A., Urban, O.
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- **GALAXY CLUSTERS DISCOVERED VIA THE SUNYAEV-ZEL'DOVICH EFFECT IN THE 2500-SQUARE-DEGREE SPT-SZ SURVEY** *ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES*
  Bleem, L. E., Stalder, B., De Haan, T., Aird, K. A., Allen, S. W., APPLEGATE, D. E., Ashby, M. L., Bautz, M., Bayliss, M., Benson, B. A., Bocquet, S., Brodwin, M., Carlstrom, et al
  2015; 216 (2)

- **MEASUREMENT OF GALAXY CLUSTER INTEGRATED COMPTONIZATION AND MASS SCALING RELATIONS WITH THE SOUTH POLE TELESCOPE** *ASTROPHYSICAL JOURNAL*
  Saliwanchik, B. R., Montroy, T. E., Aird, K. A., Bayliss, M., Benson, B. A., Bleem, L. E., Bocquet, S., Brodwin, M., Carlstrom, J. E., Chang, C. L., Cho, H. M., Clocchiatti, A., Crawford, et al
  2015; 799 (2)

- **X-ray bright active galactic nuclei in massive galaxy clusters - III. New insights into the triggering mechanisms of cluster AGN** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
  Ehlert, S., Allen, S. W., Brandt, W. N., Canning, R. E., Luo, B., Mantz, A., Morris, R. G., Von der Linden, A., Xue, Y. Q.
  2015; 446 (3): 2709-2729

- **Weighing the giants - IV. Cosmology and neutrino mass** *MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY*
  Mantz, A. B., von der Linden, A., Allen, S. W., Applegate, D. E., Kelly, P. L., Morris, R. G., Rapetti, D. A., Schmidt, R. W., Adhikari, S., Allen, M. T., Burchat, P. R., Burke, D. L., Cataneo, et al
  2015; 446 (3): 2205-2225

- **THE XXL SURVEY. V. DETECTION OF THE SUNYAEV-ZEL'DOVICH EFFECT OF THE REDSHIFT 1.9 GALAXY CLUSTER XLSSU J021744.1-034536 WITH CARMA** *ASTROPHYSICAL JOURNAL*
  Mantz, A. B., Abdulla, Z., Carlstrom, J. E., GREER, C. H., Leitch, E. M., Marrone, D. P., Muchovej, S., Adami, C., Birkinshaw, M., Bremer, M., Clerc, N., Giles, P., Horellou, et al
  2014; 794 (2)

- **SPT-CL J2040-4451: AN SZ-SELECTED GALAXY CLUSTER AT z=1.478 WITH SIGNIFICANT ONGOING STAR FORMATION** *ASTROPHYSICAL JOURNAL*
  Bayliss, M. B., Ashby, M. L., Ruel, J., Brodwin, M., Aird, K. A., Bautz, M. W., Benson, B. A., Bleem, L. E., Bocquet, S., Carlstrom, J. E., Chang, C. L., Cho, H. M., Clocchiattii, et al
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