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Ph.D. Student in Physics, admitted Autumn 2022

Publications

PUBLICATIONS

- **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)
- **Fast, low-noise image sensor technology for strategic X-ray astrophysics missions**
Bautz, M. W., Miller, E. D., Prigozhin, G. Y., LaMarr, B. J., Malonis, A., Foster, R., Grant, C. E., Schneider, B., Leitz, C., Donlon, K., Prigozhin, I., Lambert, R., Cooper, et al
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SPIE-INT SOC OPTICAL ENGINEERING.2024
- **Towards efficient machine-learning-based reduction of the cosmic-ray induced background in X-ray imaging detectors: increasing context awareness**
Poliszczuk, A., Wilkins, D., Allen, S. W., Miller, E. D., Chattopadhyay, T., Schneider, B., Darve, J., Bautz, M., Falcone, A., Foster, R., Grant, C. E., Herrmann, S., Kraft, et al
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- **The XOC X-ray Beamline: Probing Colder, Quieter, and Softer**
Stueber, H. R., Chattopadhyay, T., Herrmann, S. C., Orel, P., Gebre, T., Joshi, A., Allen, S. W., Morris, G. R., Poliszczuk, A.
edited by Holland, A. D., Minoglou, K.
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- **Demonstrating sub-electron noise performance in Single electron Sensitive Readout (SiSeRO) devices**
Chattopadhyay, T., Herrmann, S., Orel, P., Donlon, K., Allen, S. W., Bautz, M. W., Cantrall, B., Cooper, M., LaMarr, B., Leitz, C., Miller, E., Morris, R., Pan, et al
edited by Holland, A. D., Minoglou, K.
SPIE-INT SOC OPTICAL ENGINEERING.2024
- **Continued developments in X-ray speed reading: fast, low noise readout for next-generation wide-field imagers**
Herrmann, S. C., Orel, P., Chattopadhyay, T., Morris, G. R., Prigozhin, G. Y., Stueber, H. R., Allen, S. W., Bautz, M. W., Donlon, K., LaMarr, B. J., Leitz, C. W., Miller, E. D., Pan, et al
edited by Holland, A. D., Minoglou, K.
SPIE-INT SOC OPTICAL ENGINEERING.2024
- **X-ray speed reading with the MCRC: prototype success and next generation upgrades**
Orel, P., Pan, A. Y., Herrmann, S. C., Chattopadhyay, T., Morris, G. R., Stueber, H., Allen, S. W., Wilkins, D. R., Prigozhin, G. Y., LaMarr, B. J., Foster, R. F., Malonis, A. C., Bautz, et al
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