

# Stanford

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## Steven Kahn

Cassius Lamb Kirk Professor in the Natural Sciences and Professor of Particle Physics and Astrophysics

### Bio

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#### ACADEMIC APPOINTMENTS

- Professor, Particle Physics and Astrophysics
- Professor, Physics

### Teaching

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#### STANFORD ADVISEES

##### Doctoral Dissertation Advisor (AC)

David Thomas

### Publications

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#### PUBLICATIONS

- **Searching for Subsecond Stellar Variability with Wide-field Star Trails and Deep Learning** *ASTROPHYSICAL JOURNAL*  
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- **EVIDENCE FOR NONLINEAR GROWTH OF STRUCTURE FROM AN X-RAY-SELECTED CLUSTER SURVEY USING A NOVEL JOINT ANALYSIS OF THE CHANDRA AND XMM-NEWTON ARCHIVES** *ASTROPHYSICAL JOURNAL*  
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- **Performance of the EBIT calorimeter spectrometer** *17th Topical Conference on High-Temperature Plasma Diagnostics*  
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- **The XRS microcalorimeter spectrometer at the Livermore electron beam ion trap** *12th International Workshop on Electron Beam Ion Trap*  
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- **The LSST Camera Overview: Design and Performance** *Conference on Ground-Based and Airborne Instrumentation for Astronomy II*  
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- **Laboratory astrophysics in the extreme ultraviolet** *12th International Workshop on Electron Beam Ion Trap*

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- **The Sloan Digital Sky Survey-II Supernova Survey: Technical summary** *ASTRONOMICAL JOURNAL*  
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2008; 135 (1): 338-347
- **Laboratory measurements of 3 -> 2 X-ray line ratios of F-like Fe XVIII and Ni XX** *ASTROPHYSICAL JOURNAL*  
Gu, M. F., Chen, H., Brown, G. V., Beiersdorfer, P., Kahn, S. M.  
2007; 670 (2): 1504-1509
- **Evidence for the importance of resonance scattering in X-ray emission line profiles of the O star xi Puppis** *ASTROPHYSICAL JOURNAL*  
Leutenegger, M. A., Owocki, S. P., Kahn, S. M., Paerels, F. B.  
2007; 659 (1): 642-649
- **Wavelength measurements of Ni L-shell lines between 9 and 15 angstrom** *ASTROPHYSICAL JOURNAL*  
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Gu, M. F., Holczer, T., Behar, E., Kahn, S. M.  
2006; 641 (2): 1227-1232
- **Phonon-mediated distributed transition-edge-sensor X-ray detectors for surveys of galaxy clusters and the warm-hot interstellar medium** *11th International Workshop on Low-Temperature Detectors*  
Leman, S. W., Brink, P. L., Cabrera, B., Castle, J. P., Chakraborty, S., Deiker, S., Kahn, S., Martinez-Galarce, D. S., Stern, R. A., Tomada, A.  
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- **The LSSST camera overview** *Conference on Ground-Based and Airborne Instrumentation for Astronomy*  
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- **Comparisons of laboratory wavelength measurements with theoretical calculations for neon-like through lithium-like argon, sulfur and silicon** *12th International Conference on the Physics of Highly Charged Ions*  
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- **The Astro-E2 X-ray spectrometer/EBIT microcalorimeter x-ray spectrometer** *15th Topical Conference on High-Temperature Plasma Diagnostics*  
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- **Detection of a fully resolved Compton shoulder of the iron K alpha line in the Chandra X-ray spectrum of GX 301-2** *ASTROPHYSICAL JOURNAL*  
Watanabe, S., Sako, M., Ishida, M., Ishisaki, Y., Kahn, S. M., KOHMURA, T., Morita, U., Nagase, F., Paerels, F., Takahashi, T.  
2003; 597 (1): L37-L40