



Sherpa Publications

Postscript versions of Chandra-related publications, grouped by subject, are available for download here (note that the files are `gzip`-compressed).

[General](#) | [Statistics](#)

Citing *Sherpa* in a Publication

If you are writing a paper and would like to cite *Sherpa*, we recommend the following paper:

Sherpa: a mission-independent data analysis application

P. E. Freeman, S. Doe, A. Siemiginowska

SPIE Proceedings, Vol. 4477, p.76, 2001

[SPIE_2001.ps.gz](#), 12 pages

The specific version of CIAO and CALDB (if applicable) used for the analysis should be mentioned as well. Further guidelines are available from the [Acknowledgment of Use of Chandra Resources](#).

General

New Elements of Sherpa, CIAO's Modeling and Fitting Tool

P. E. Freeman, S. Doe, A. Siemiginowska

ADASS X, ASP Conference Series, Vol. 238, p.483, 2001

[newsherpa.ps.gz](#), 4 pages

Fitting and Modeling of AXAF Data with the ASC Fitting Application

S. Doe, M. Ljungberg, A. Siemiginowska, W. Joye

ADASS VII, ASP Conference Series, Vol. 145, 1998

[ascfitting.ps.gz](#), 4 pages

Fitting and Modeling in the ASC Data Analysis Environment

S. Doe, A. Siemiginowska, W. Joye, J. McDowell

ADASS VI, ASP Conference Series, Vol. 125, 1997

[daenvironment.ps.gz](#), 4 pages

AXAF Data Analysis Challenges

A. Siemiginowska, *et al.*

Statistical Challenges in Modern Astronomy II, 1997

[challenges.ps.gz](#), 16 pages

Advances in Chandra Data Analysis

N. RA. Wolk, M. Noble, S. Doe

[advances.ps.gz](#), 4 pages

Statistics

General

Statistical Challenges in Astronomy,

E. D. Feigelson, G. J. Babu

Springer–Verlag (publisher), 2003

[amazon.com](#)

Parameter Estimation and Model Comparison

Energy Spectra of X–ray Clusters of Galaxies

Y. Avni

ApJ, 210, 642, 1976

[energyspec.ps.gz](#), 5 pages

Parameter Estimation in Astronomy through Application of the Likelihood Ratio

W. Cash

ApJ, 228, 939, 1979

[likelihood.ps.gz](#), 9 pages

Generation of Confidence Intervals for Model Parameters in X–ray Astronomy

W. Cash

A&A, 52,307, 1976

[conf_intervals.ps.gz](#), 2 pages

Parameter Estimation in X–ray Astronomy

M. Lampton, B. Margon, S. Bowyer

ApJ, 208, 177, 1976

[paramest.ps.gz](#), 14 pages

Analyzing Gamma–ray Burst Spectral Data

T. J. Loredo, R. I. Epstein

ApJ, 336, 896, 1989

[grb.ps.gz](#), 24 pages

Chi–squared and C Statistic Minimization for Low Count per Bin Data

J. A. Nousek, D. R. Shue

ApJ, 342, 1207, 1989

[chisq_cstat.ps.gz](#), 5 pages

Statistics, Handle with Care: Detecting Multiple Model Components with the Likelihood Ratio Test

R. Protassov, D. A. van Dyk, A. Connors, V. L. Kashyap, A. Siemiginowska
ApJ, 571, 545, 2002
[astro-ph/0201547](#)

Parameter Estimation in X-ray Astronomy using Maximum Likelihood

K. Wachter, R. Leach, E. Kellogg
ApJ, 230, 274, 1979
[paramest2.ps.gz](#), 17 pages

X-ray Spectra and Detectors

The Formal Underpinnings of the Response Functions Used in X-Ray Spectral Analysis

J. E. Davis
ApJ, 548, 1010, 2001
[underpinnings.ps.gz](#), 22 pages

The Analysis of X-ray Spectra

P. Gorenstien, H. Gursky, G. Garmire
ApJ, 153, 885, 1968
[xray_spectra.ps.gz](#), 14 pages

The Direct Deconvolution of X-ray Spectra

S. M. Kahn, R. J. Blissett
ApJ, 238, 417, 1980
[deconvolution.ps.gz](#), 18 pages

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URL:
<http://cxc.harvard.edu/sherpa3.4/documents/papers/index.html>
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