



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

The Chandra X-Ray Center (CXC) is operated for NASA by the Smithsonian Astrophysical Observatory.
60 Garden Street, Cambridge, MA 02138 USA.
Smithsonian Institution, Copyright © 1998–2006. All rights reserved.

URL:
<http://cxc.harvard.edu/sherpa3.4/documents/papers/index.html>
Last modified: 17 October 2007

