

URL: http://cxc.harvard.edu/ciao3.4/workshop/jan01/hands-on.html
Last modified: 26 September 2006

1st Chandra/CIAO Workshop Hands-on Session

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Practical Information:

- There are 12 workstations called "DEMO1, DEMO2, ... DEMO12" and two people should work at each workstation.
- Users should log-in as "cxcguest1", "cxcguest2", etc. on the corresponding machines (passwords will be revealed on Tuesday).
- All the "cxcguest" accounts are already setup to run CIAO2.0.2. On every window where you expect to run CIAO, you should simply type "ciao". For example:

• Some useful checks:

```
cxcguest-2: ciao -v
Your CIAO version is: 2.0.2
Your CXC_PROP_CLI version is: 3.0

cxcguest-3: echo $PDIRS
/home/cxcguest/cxcds_param;/soft/ciao/param

cxcguest-4: echo $CALDB
/soft/ciao/CALDB

cxcguest-5: echo $ATOMDB
/soft/ciao/ATOMDB
```

• The workspace is in

/data/ciao_demo/

12 subdirectories have been created called excguest1 through excguest12; please use the one relative to your machine.

- Chandra data useful for the analysis can be found in /data/ciao_demo/data
- All the CIAO scripts can be found in the directory /data/ciao_demo/scripts
- If you need to access CALDB files, they are in /soft/ciao/CALDB, which is linked to /data/CALDB/
- If you need to access ATOMDB files, they are in /soft/ciao/ATOMDB, which is linked to /data/axaf8/atomdb/

Suggested Analysis Sessions:

All the threads listed below can be found from the CIAO 2.0 threads page.

• Beginners:

Introduction To the Data Model

Introduction To Using Prism

Data Filtering

Create True Color Image

Extract an ACIS spectrum and make RMF and ARF

Getting Started With Sherpa

Introducing Sherpa: ASCII Data & Errors and Single-Component Source Models

Fitting Spectral Data: FITS Data & Responses and Multi-Component Source Models

• Grating analysis:

Examining PHA2 Files

Obtain Grating Spectra

Create Grating ARFs

Extract Coadded and Grouped Nth-Order Source & Background Spectra and ARFs

Fitting Grating Data

GUIDE: Fitting and Identifying Spectral Lines

Extended Source Analysis:

• Extended Source Analysis:

Create True Color Image

Obtain a Radial Profile

Exposure Map

• Source Detection:

Exposure Maps

Source Detection

Estimate the Number of Counts in a Source

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