

# The Second Coronas-Photon and SphinX Workshop

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## SphinX data and software

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# SphinX data

Event counting

( $T_{\text{phot}}$ ,  $E_{\text{phot}}$ )

Spectra

Histograms of different binning

Cal Spectra  
1024 bins

Flight Spectra  
256 bins

Basic mode  
4 - 6  
broadband  
channels



# SphinX ancillary data

- GOES
- Attitude
- Orbit
- Flare/Events list

# SphinX data format

FITS files

OGIP FITS

[http://heasarc.gsfc.nasa.gov/docs/heasarc/  
ofwg/docs/rates/ogip\\_93\\_003/  
ogip\\_93\\_003.html](http://heasarc.gsfc.nasa.gov/docs/heasarc/ofwg/docs/rates/ogip_93_003/ogip_93_003.html)

The same format as for RHESSI data

# OGIP FITS

- Standard within the standard
- Developed since the 90s
- Strict definition of header keywords
- Aggregated data – fast performance
- Mission/instrument specific keywords
- SphinX OGIP FITS - OSPEX ready

# SphinX hardware system

SphinX software/hardware system consists of two independent data archives on servers in

Wrocław – Poland

Ondřejov - Czech Republic.

Both servers will be synchronized and their data content identical.

# Sphinx soft main features

user friendly

support modifications

easy to install

freeware

(except IDL licence)

Flexible IDL data manipulation and visualization tools optimized for high performance and speed.

SphinXvisio

SphinXstudio

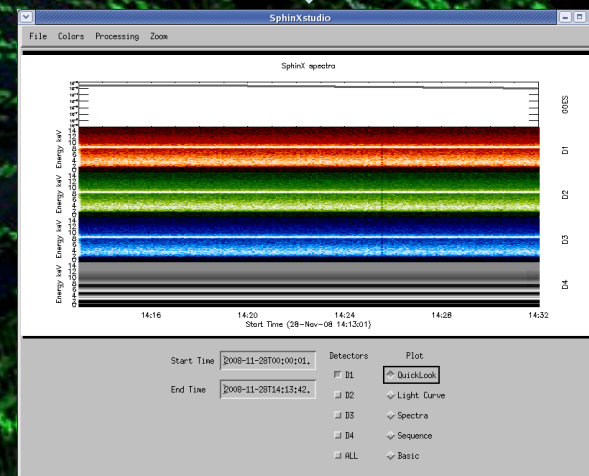
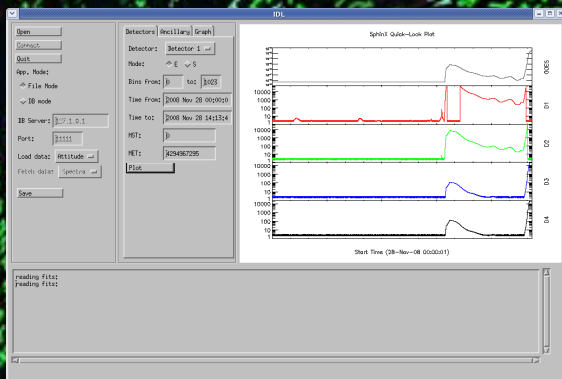
FITS

FITS

FITS

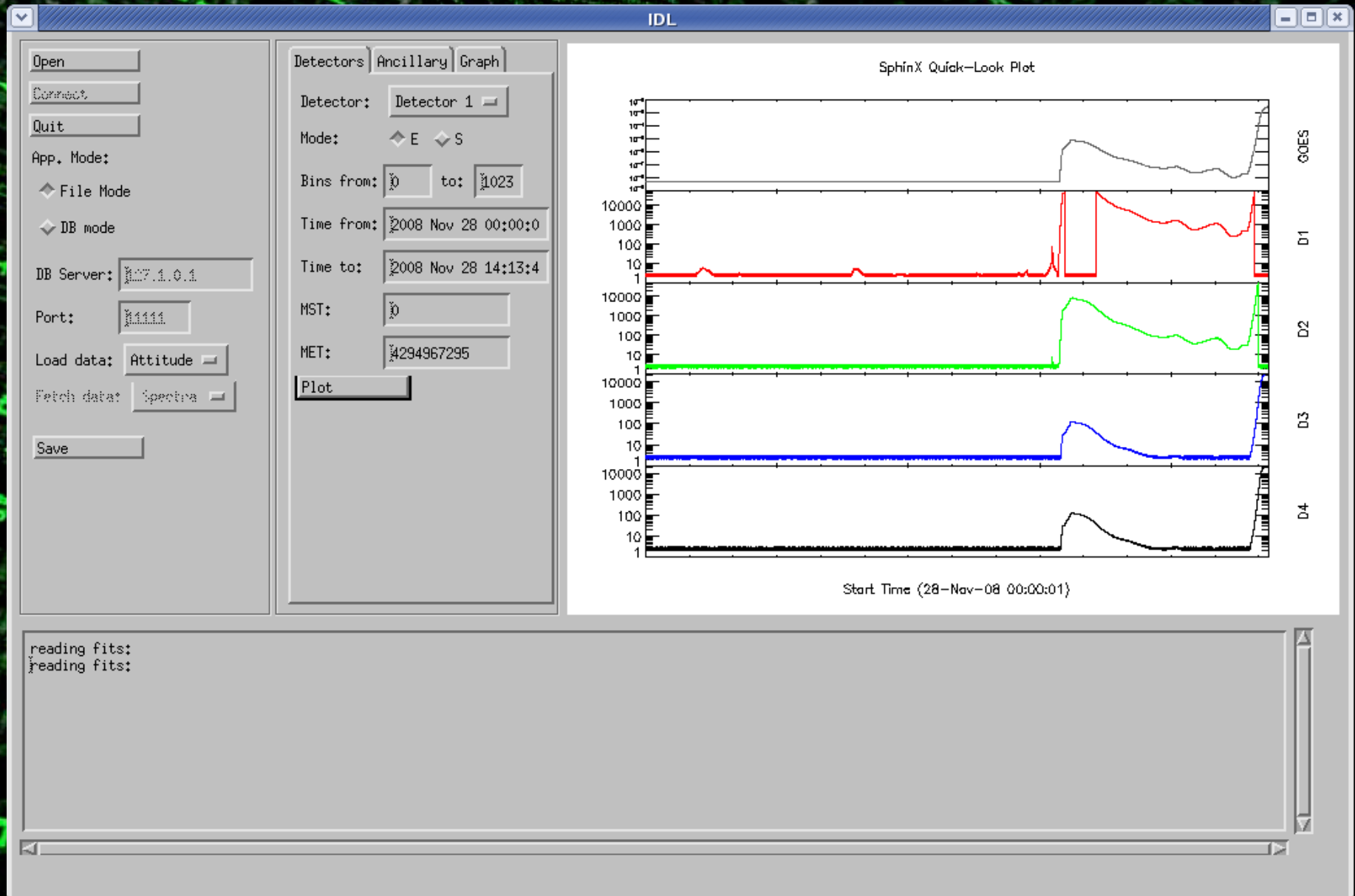
DB

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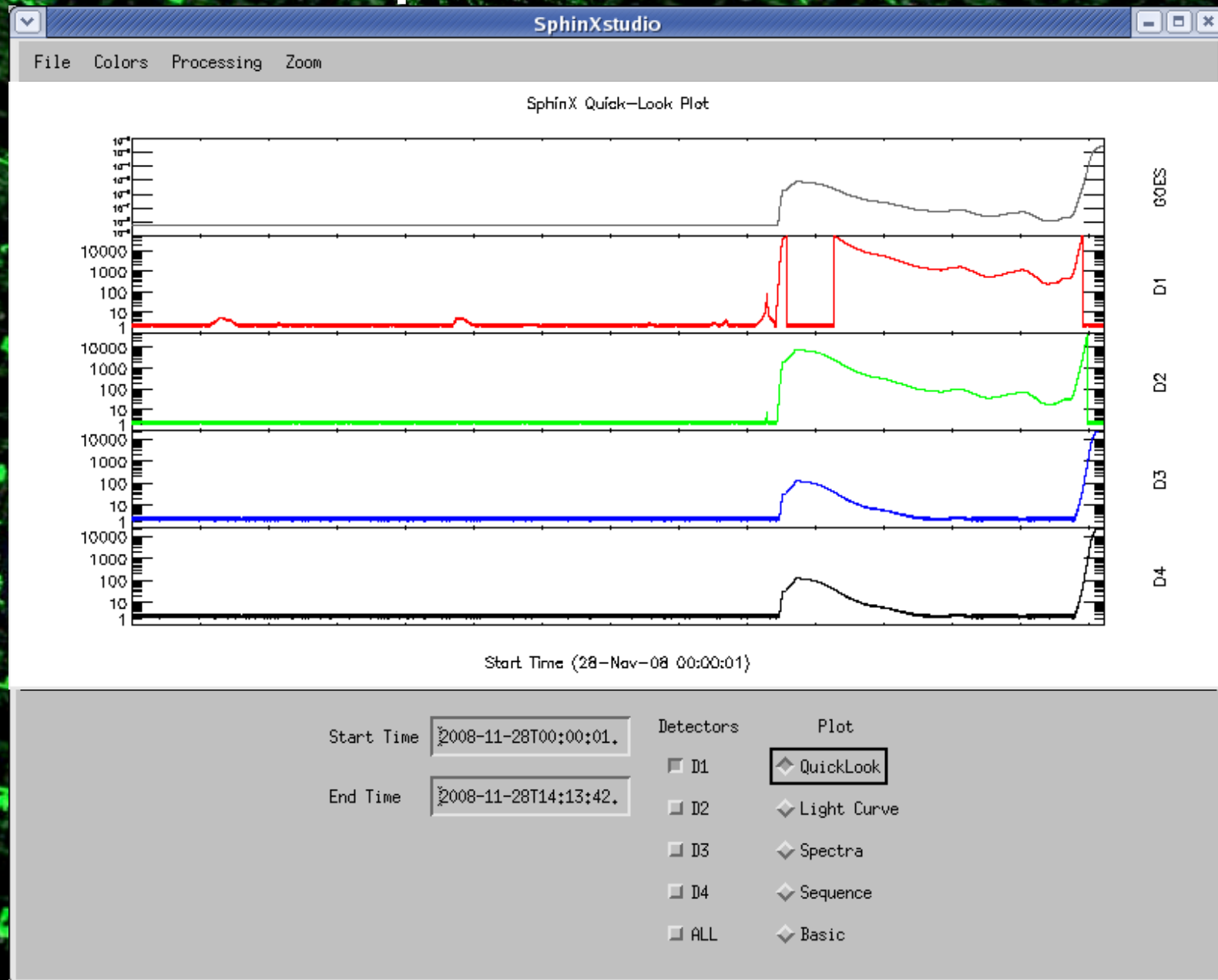




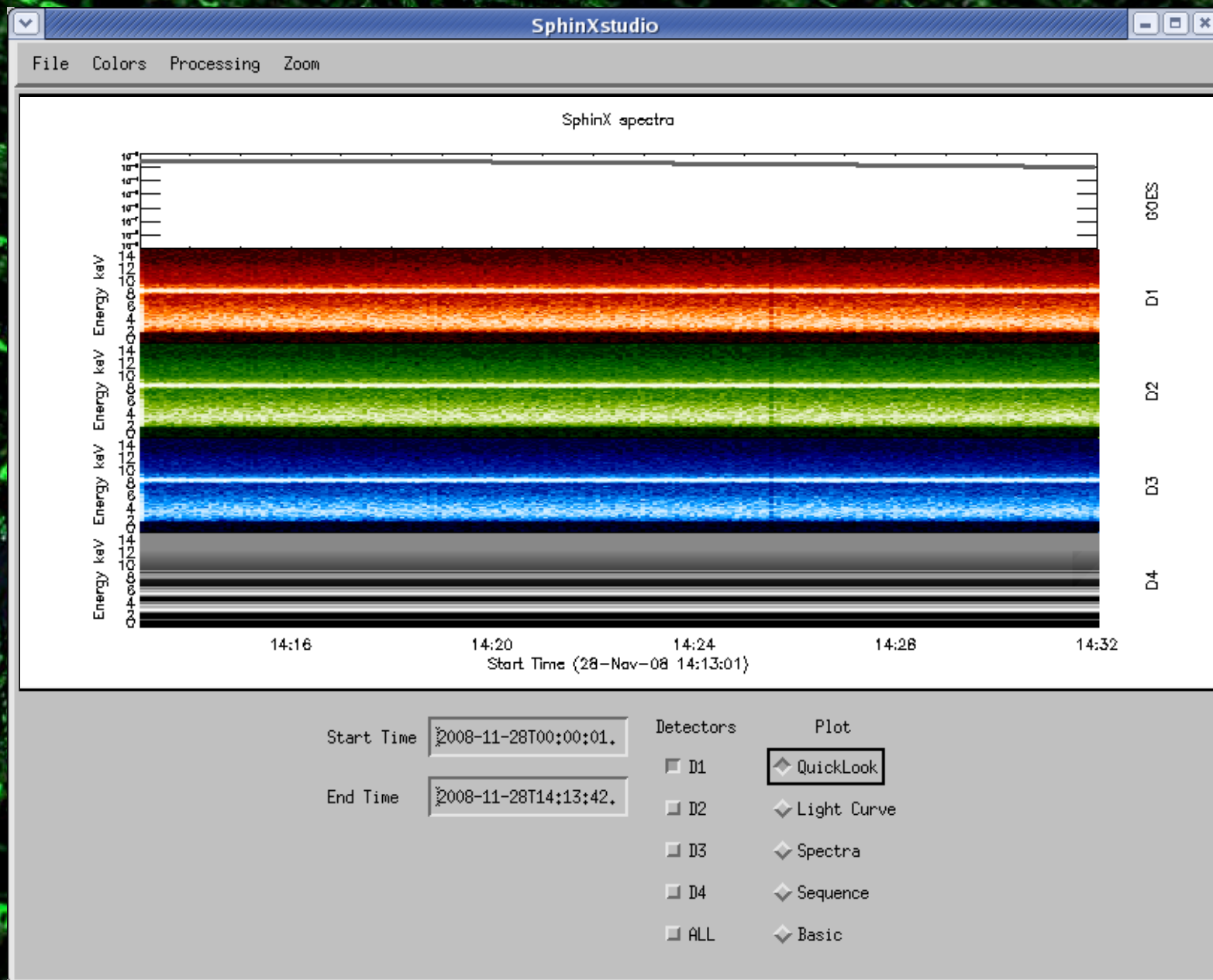
# SphinXvisio



# SphinXstudio



# SphinXstudio



# SphinX data visualisation products

- Quick look images
- Spectra
- Lightcurves
- Sequece plots (event counting operation mode)
- Web catalogue



# SphinX data access

- SolarSoft databases
- Download from web catalogue