

URL: <a href="http://cxc.harvard.edu/ciao3.4/pix get grating wavelength.html">http://cxc.harvard.edu/ciao3.4/pix get grating wavelength.html</a>
Last modified: December 2006

Context: pixlib

# AHELP for CIAO 3.4 pix\_get\_grating\_wavelength

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## **Synopsis**

Return the photon wavelength corresponding to a given grating dispersion (GAC) value.

## **Syntax**

Double\_Type pix\_get\_grating\_wavelength( Double\_Type x, Double\_Type y )

## **Description**

Calculates the wavelength, in Angstrom, for a given grating position and using the current pixlib settings. The x and y values are in the GAC coordinate system, and so represent the grating dispersion and cross—dispersion angles in degrees. The grating order – as set by pix\_set\_grating() – must be non–zero for this routine to work.

The pix\_get\_energy() routine can be used to find the energy of the photon instead of the wavelength.

#### **Bugs**

See the <u>bugs page for the pixlib library</u> on the CIAO website for an up-to-date listing of known bugs.

#### See Also

modules

<u>pixlib</u>

pixlib

pix gac to gdp, pix gdp to gac, pix get energy

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