



AHELP for CIAO 3.4 **pix_get_grating_wavelength**

Context: [pixlib](#)

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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 [bugs page for the pixlib library](#) on the CIAO website for an up-to-date listing of known bugs.

See Also

modules

[pixlib](#)

pixlib

[pix_gac to gdp](#), [pix_gdp to gac](#), [pix_get energy](#)

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URL:
http://cxc.harvard.edu/ciao3.4/pix_get_grating_wavelength.html
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