



AHELP for CIAO 3.4

pix_fpc_to_gdp

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Synopsis

Convert from the Focal Plane (FPC) to Grating Dispersion Plane (GDP) coordinate system.

Syntax

```
Array_Type pix_fpc_to_gdp( Double_Type x, Double_Type y )
```

Description

This routine converts a position in the Focal Plane coordinate (FPC) system to the matching position in the Grating Dispersion Plane (GDP) coordinate system, using the current settings of the `pixlib` module. The inputs (x,y) are the position in the FPC system. The return value is a two–element array which gives the GDP coordinates in pixels.

Example

```
chips> require( "pixlib" )
chips> pix_init_pixlib
chips> pix_set_detector( "HRC-S" )
chips> gdp = pix_fpc_to_gdp( 42000, 17300 )
chips> print( gdp )
40545.9
169.415
```

Using the default settings of the `pixlib` module for the HRC–S detector (i.e. the aimpoint is on HRC–S2), we find that the FPC location (42000, 17300) corresponds to the GDP position (40545.9, 169.415).

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_fpc_to_gdp

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pix chip to fpc, pix chip to gdp, pix chip to tdet, pix fpc to chip, pix fpc to msc,
pix tdet to chip

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