Polarimetry tools code function documentation

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* funcs\_apt\_phot
  + apt\_phot\_global\_bkg\_sub

Description: Function that does aperture photometry with global background subtraction.

Inputs: {fits\_data\_1: a fits file,

search\_offset: an integer,

positions: an array of integers,

apt\_rad: an integer,

plot\_phot\_tab: a boolean,

plot\_sky\_med: a boolean}

* + apt\_phoy\_local\_bkg\_sub

Description: Function that does aperture photometry with local background subtraction.

Inputs: {fits\_data\_1: a fits file,

search\_offset: an integer,

search\_array: a list of integers,

positions: a list of floats,

apt\_rad: a float,

ann\_in\_rad: a float,

ann\_out\_rad: a float,

plot: a boolean,

im\_val: a boolean}

* + solve\_apt

Description: Function that tries different aperture radius aperture photometry with local background subtraction.

Inputs: {combine\_target: a list of floats,

trial\_radii: a list of floats,

verbose: a boolean}

* funcs\_calib\_and\_plot
  + make\_calib\_files

Description: A function that takes in bias, dark, and flat. Returns master bias, master dark, and master flat  
Inputs: {bias: list of strings,

dark: list of strings,

flat\_p1: list of strings,

flat\_p3:list of strings}

* + file\_splits:

Description: A function that prints the entire list of data   
Inputs: { list\_data:list of strings}

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