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|--------------|-----------------|-----------------|-----------|------|
| NEW QUERY | MODIFY QUERY | SAVE RESULTS | RESOURCES | HELP |
|--------------|-----------------|-----------------|-----------|------|

Calculation Results from ETC

Processing Info:

ETC (WL Sensitivity Only Mode) was run with these options on Monday, November 3, 2014, at 7:40:33 AM PST:

| | |
|----------------------|--|
| -WFE_INPUT | 0.071 |
| -TCFILE | /wfirst/java/tomcat/webapps/wfDepc/visitor/temp709123754/Im140805r.282.dat |
| -DET_TYPE | 0 |
| -JITTER | 0.04 |
| -MIN_LAMBDA | 1.570 |
| -MAX_LAMBDA | 2.0 |
| -SINGLE_EXPOSURE | 184 |
| -READ_NOISE_FLOOR | 5.0 |
| -DARK_CURRENT | 0.05 |
| -ECL_LAT | 45.0 |
| -IN_DLON | 90 |
| -GALACTIC_REDDENING | 0.05 |
| -NUMBER_OF_EXPOSURES | 5 |
| -FILTER_THROUGHPUT | 0.95 |

The original URL of this results page is

<http://wfirst-web.ipac.caltech.edu/wfDepc/visitor/temp709123754/results.jsp>

Your query results will be available on our server at this URL for up to 48 hours.

Use the "SAVE RESULTS" link above to download a tar file containing these results to your local disk. [?]

Quick Links:

Text Output: [ETC output]
[View all as plain text]

ETC Output:

DEPC processing messages:

Warning: telescope temperature 2.84000E+02 K is unusual.
Warning: Aft net emissivity 6.26000E-02 is unusual.

ETC results:

```
**** ETC (WL Sensitivity Only Mode) Version 2.0
****   using Version 10 of Chris Hirata's code ****

Exposure time calculator v10
Mode: WL
Options: -DWFE_OVERRIDE
rms wavefront error = 7.10000E-02 microns.
telescope file = /wfirst/java/tomcat/webapps/wfDepc/visitor/temp709123754/Im140805r.282.dat
Det_type = H2RG - 18 um, 32 channel readout
Pointing jitter rms = 4.00000E-02 arcsec.
min wavelength = 1.57000E+00 microns.
max wavelength = 2.00000E+00 microns.
exposure time = 1.84000E+02 seconds.
read noise = 5.00000E+00 e- rms .
dark current = 5.00000E-02 (e-/pix/sec).
ecliptic latitude = 4.50000E+01 degrees.
modified ecliptic elongation relative to the Sun = 90.000000
galactic reddening = 5.00000E-02 E(B-V) magnitudes.
number of exposures = 5
filter throughput = 9.50000E-01 .

ETC Version 10
Mode: WL
Input Summary:
Telescope Configuration Used: /wfirst/java/tomcat/webapps/wfDepc/visitor/temp709123754/Im140805r.282.dat
rms wavefront error (microns) used: 0.071000
pointing jitter (arcsec rms per axis): 0.040000
minimum wavelength (microns): 1.570000
maximum wavelength (microns): 2.000000
single exposure time (s): 184.000000
read noise floor (effective e- rms per pixel): 5.000000
dark current (e-/pix/sec): 0.050000
ecliptic latitude (degrees): 45.000000
ecliptic elongation relative to the Sun (degrees): 90.000000
Galactic reddening, E(B-V) (magnitudes): 0.050000
number of exposures: 5
minimum resolution factor: 0.400000
maximum ellipticity error: 0.200000
filter throughput: 0.950000

*****

Using configuration: Big Telescope - On Axis - Imaging

General properties:
PSF EE50: 1.39004E-01 arcsec
Spatial frequency cutoff: 7.85336E-01 cycles/pix
Sampling case: Weakly undersampled
Min usable galaxy r_eff: 1.13496E-01 arcsec
Sky background flux: 3.88751E-01 e-/pix/s
Thermal background flux: 1.20358E+00 e-/pix/s
```

```
telescope:          1.17739E+00 e-/pix/s
upstream:           1.86636E-04 e-/pix/s
downstream:         2.60000E-02 e-/pix/s
Noise variance per unit solid angle in one exposure:
    sky only:       5.91159E+03 e^-2/arcsec^2
    total:          3.35702E+04 e^-2/arcsec^2
Source counts per exposure:
    at AB mag 20:   5.48973E+04 e-
    at AB mag 21:   2.18550E+04 e-
    at AB mag 22:   8.70064E+03 e-
    at AB mag 23:   3.46379E+03 e-
    at AB mag 24:   1.37896E+03 e-
    at AB mag 25:   5.48973E+02 e-
5 sigma pt src threshold: 26.224 mag AB
```