Command

pythonw photometry_hst.py --ra 173.42306 --dec 0.72589793 --fits_SN2015bn_F625W_drc.fits

Step 1: Administration

Summary of your input

Command

photometry_hst.py --ra 173.42306 --dec 0.72589793 --fits SN2015bn_F625W_drc.fits --ana-thresh 5 --det-thresh 5 --ap-diam 0.25 0.5 0.75 1.0 1.5 2.0 --ap-inner-annulus 1.25 --ap-outerannulus 2.5 --keeptemp False --loglevel INFO --outdir results/ --sex-loglevel WARNING --tol 2

Is the object in the image footprint?

Step 2: Generate source catalogue

Path of the temporary files:

/var/folders/fk/8ny2rsqs0kgcgkhc1bqhbsrr0000gp/T/sewpy_workdir_szpkkf2n

WARNING: FITSFixedWarning: RADESYSO= 'ICRS' syntactically valid WCS keyrecord has no effect. [astropy.wcs.wcs]

WARNING: FITSFixedWarning: The WCS transformation has more axes (2) than the image it is

associated with (0) [astropy.wcs.wcs]

Step 3: Background estimation (can take some time...)

WARNING: Input data contains invalid values (NaNs or infs), which were automatically masked. [astropy.stats.sigma_clipping]

/Volumes/Home/steve/anaconda/envs/py36_temp/lib/python3.6/site-

packages/astropy/stats/sigma_clipping.py:165: RuntimeWarning: invalid value encountered in

_filtered_data.mask |= _filtered_data > max_value /Volumes/Home/steve/anaconda/envs/py36_temp/lib/python3.6/site-

packages/astropy/stats/sigma_clipping.py:166: RuntimeWarning: invalid value encountered in

filtered_data.mask |= _filtered_data < min_value

/Volumes/Home/steve/anaconda/envs/py36_temp/lib/python3.6/site-

packages/photutils/segmentation/detect.py:128: RuntimeWarning: invalid value encountered in greater

check_normalization=True) > threshold)

VALUE

Step 4: Perform aperture photometry

Step 5: Curve of growth analysis

Step 6: Make cutout

Step 7: Prepare output catalogue

Summary of the ZP measurement for each aperture

Zeropoint

METHOD	ZP	ZP_ERRP	ZP_ERRM	NUMBER	r(FWHM)	d(px)	d(arcsec)	MAG_3UL_GL0B
MAG APER 0	25 - 741	N/A	N/A	N/A	Ν/Δ	5.000	0.250	25.846
MAG_APER_1		-	N/A	N/A	•	10.000	0.500	25.927
MAG_APER_2	25.827	N/A	N/A	N/A	N/A	15.000	0.750	26.301
MAG_APER_3	25.845	N/A	N/A	N/A	N/A	20.000	1.000	26.457
MAG_APER_4	25.860	N/A	N/A	N/A	N/A	30.000	1.500	26.149
MAG APER 5	25.875	N/A	N/Δ	N/A	N/Δ	40 000	2_000	25.060

ERR0F

Science

PROPERTY

Summary of the photometry of your science object

FILENAME	nan	nan		awzoroun_F625W_arc.rics
DATE-0BS	nan	nan	nan	2017-06-01T00:00:00.000
MJD	nan	nan	nan	57905.0
EXPTIME	nan	nan	nan	2356.0
NCOMBINE	nan	nan	nan	4
RA	173.42307	nan	nan	degree
DEC	0.7258979	nan	nan	degree
X_IMAGE_EXP	2184.58	nan	nan	px

ERROR+

Y_IMAGE_EXP	3171.429	nan	nan	px
X_IMAGE_OBS	2184.58	nan	nan	px
Y_IMAGE_OBS	3171.429	nan	nan	px
DISTANCE (px)	0.0	nan	nan	px
DISTANCE (arcsec)	0.0	nan	nan	arcsec
FNU_APER_0	0.6403	0.05577	0.05577	microJy
MAG_APER_0	24.384	0.099	0.091	mag
MAG_APER_0_2sigma	26.281	nan	nan	mag
MAG_APER_0_3sigma	25.841	nan	nan	mag
FNU_APER_1	1.089	0.05194	0.05194	microJy
MAG_APER_1	23.808	0.053	0.051	mag
MAG_APER_1_2sigma	26.359	nan	nan	mag
MAG_APER_1_3sigma	25.919	nan	nan	mag
FNU_APER_2	1.958	0.03748	0.03748	microJy
MAG_APER_2	23.17	0.021	0.021	mag
MAG_APER_2_2sigma	26.713	nan	nan	mag
MAG_APER_2_3sigma	26.273	nan	nan	mag
FNU_APER_3	3.039	0.03327	0.03327	microJy
MAG_APER_3	22.693	0.012	0.012	mag
MAG_APER_3_2sigma	26.842	nan	nan	mag
MAG_APER_3_3sigma	26.402	nan	nan	mag
FNU_APER_4	4.334	0.04375	0.04375	microJy
MAG_APER_4	22.308	0.011	0.011	mag
MAG_APER_4_2sigma	26.545	nan	nan	mag
MAG_APER_4_3sigma	26.105	nan	nan	mag
FNU_APER_5	4.777	0.0563	0.0563	microJy
MAG_APER_5	22.202	0.013	0.013	mag
MAG_APER_5_2sigma	26.271	nan	nan	mag
MAG_APER_5_3sigma	25.831	nan	nan	mag

Step 9: Write results to file

Step 10: Remove all temps