

Req 5.6.7

Title:

Linearity as a function of flux

Objective:

Verify the linearity (ratio of input over output) of the overall detector amplification-data reduction chain for the three different observing modes as an end-to-end test.

Compare the resultant magnitudes derived by the image pipeline by taking short and long exposures of the same standard field.

Fulfilling or fulfilled by:

Selfstanding

When performed/frequency:

Commissioning

Sources, observations, instrument configurations:

Equatorial field in all the four key passbands; short 10 sec, 100 sec, 400 sec and 800 sec exposure. Two lens corrector.

Outputs:

OK flag

Required accuracy, constraints:

Better than 1% on the photometric scale

Estimated time needed:

Commissioning 6 hour

Priority:

desirable

TSF:

Mode– Stare N=2

TSF– OCAM_img_obs_stare

and

Mode– jitter N=5

TSF– OCAM_img_obs_jitter

and

Mode– dither N=5

TSF– OCAM_img_obs_dither

CA:

Run standard image pipeline and do source extraction on the calibrated image. Compare magnitudes of source lists for different exposure times in an interactive analysis.