

PhoSim-NIRCam: CommandsFile

- The default physics in PhoSim can be modified by issuing a series of physics override commands in CommandsFile.
- We provide the following three CommandsFiles for the use with JWST/NIRCam (these can be found in the **nircam** directory):
 - **geo** – geometric distortion only
 - **diff** – diffraction-limited PSF only
 - **geo_diff** – geometric distortion and diffraction-limited PSF.
 - Only **geo_diff** will produce photometrically accurate images. The CommandsFiles **geo** and **diff** are used for diagnostic purposes only.
 - It is not necessary for the general user to understand what **phosim** commands do, but the contents of these CommandsFiles are listed below for information.
- **geo**
 - `cleareverythingbutbody`
 - `contaminationmode 1`
 - `zenith_v 1000.0` (set the background level to zero)
 - `raydensity 0.0` (turn off cosmic rays)
 - `telescopemode 1`
 - `detectormode 0`
 - `diffractionmode 0`
 - `tiltx -0.02430555556`
 - `tilty -0.135916667`
- **diff**
 - `cleareverything`
 - `contaminationmode 1`
 - `zenith_v 1000.0`
 - `raydensity 0.0`
 - `telescopemode 0`
 - `detectormode 1`
 - `ccdtemp37`
 - `diffractionmode 1`
 - `pupilscreen 1`
- **geo_diff**
 - `cleareverythingbutbody`

- contaminationmode 1
- zenith_v 1000.0
- raydensity 0.0
- telescopemode 1
- detectormode 1
- ccdtemp 37
- diffractionmode 1
- pupilscreen 1
- tiltx -0.02430555556
- tilty -0.135916667