

NIRCam Simulator

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- Aim is to test reduction and data analysis algorithms given the variations in background and PSF.
- Detector signature (gain, bad pixel map, dark current) is based on ground-based laboratory measurements.
- Simulated data use a Monte Carlo approach by tracing the path of individual photons from emission, to PSF distortion and eventual accumulation on detector.
- Uses model or "cloned" galaxies.
- TDB: include realistic galaxy and stellar luminosity functions; positions of stars from catalogues (e.g. GSC) to minimise contamination by latents; galaxy shapes and SEDs from N-body models; background emission from the Galaxy.



