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TESSreduce: Extracting high quality calibrated PSF photometry from TESS

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Extracting high quality calibrated lightcurves from TESS Full Frame Images can often be challenging due to high levels of scattered light, low spatial resolution, and broad bandpass. These challenges limit what phenomena that TESS can be used to study. The TESSreduce pipeline solves these challenges by providing flux calibrated PSF photometry for any TESS target with a single line of python code. Through TESSreduce we are able to correct for even the most extreme cases of scattered light backgrounds, and calibrate the photometry to ~ 0.01 mag precision using the well calibrated Pan-STARRS and SkyMapper source catalogs. We will present the current version of TESSreduce and how it can be used to enable open science with TESS.

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