From: **Bryan Hilbert** hilbert@stsci.edu
Subject: background values at L2
Date: October 12, 2018 at 4:46 PM
To: Massimo Robberto robberto@stsci.edu

HB

Hi Massimo,

Here are some background numbers for you. I've attached 3 files:

get_background_tables.py – used to create the background curves. If you look in there you can see my method. The jwst_backgrounds package returns several types of background signals: zodi, "non-zodi", thermal, and stray light. I figured that the last two were JWST-specific and not relevant to what you're doing, so I ignored those and kept only zodi and non-zodi. From an example I found in the documentation, it looks like "non-zodi" is also called ISM. If you want to change details like the pointing, the definition of "low", "medium", or "high", or the wavelength cutoff, those are all easily changed toward the top of the code.

You can then run the code with:

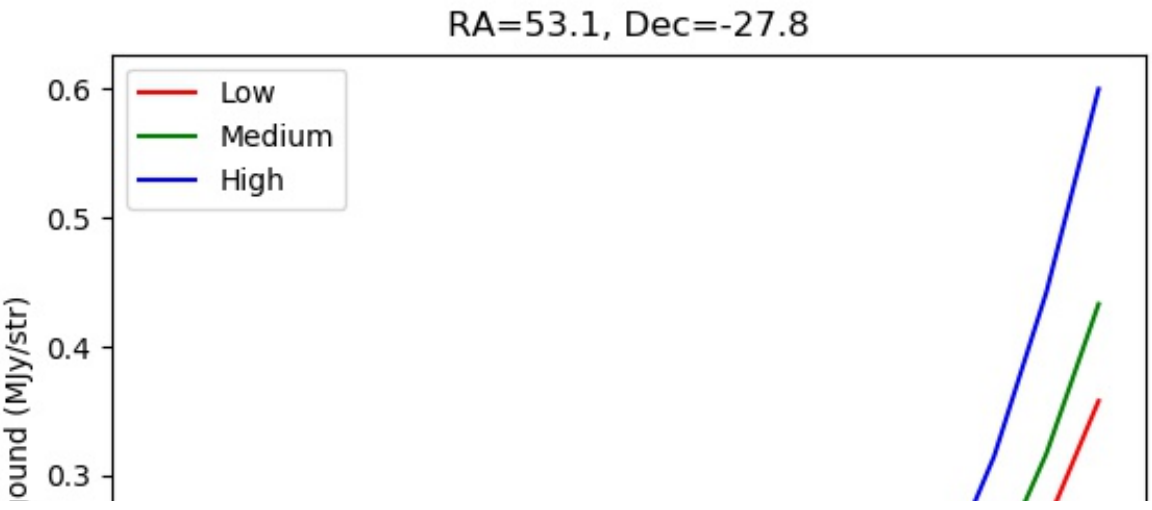
- python get_background_tables.py

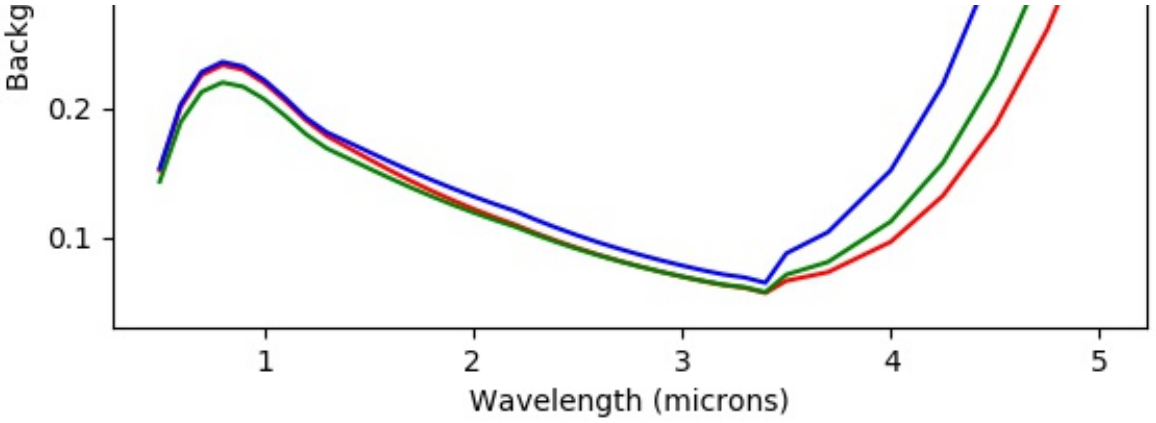
background_vs_wavelength*jpg – plot of the background vs wavelength for low, medium, and high cases
backgrounds_mjy_per_str_ra_53.1_dec_-27.8.txt – ascii table with background vs wavelength for all three cases.

Units are MJy/str for everything, and the pointing I used was RA=53.1, Dec=-27.8.

Let me know if you have any questions,
Bryan

backgrounds_mjy_per_s...27.8.txt





get_background
_tables.py