

NIRPS Transmission/Efficiency

Original:

effs.txt – original file from Bruno Canto ETC
(190740, 33) with columns:

- Wavelength
- Tel_clean
- Fiber-end
- Back-End
- H4RG
- HA (with different columns for seeing equal to 0.7, 0.9, 1.2 paired I equal to 9 through 12)
- HE (with different columns for seeing equal to 0.7, 0.9, 1.2 paired I equal to 9 through 12)
- Blaze
- Order

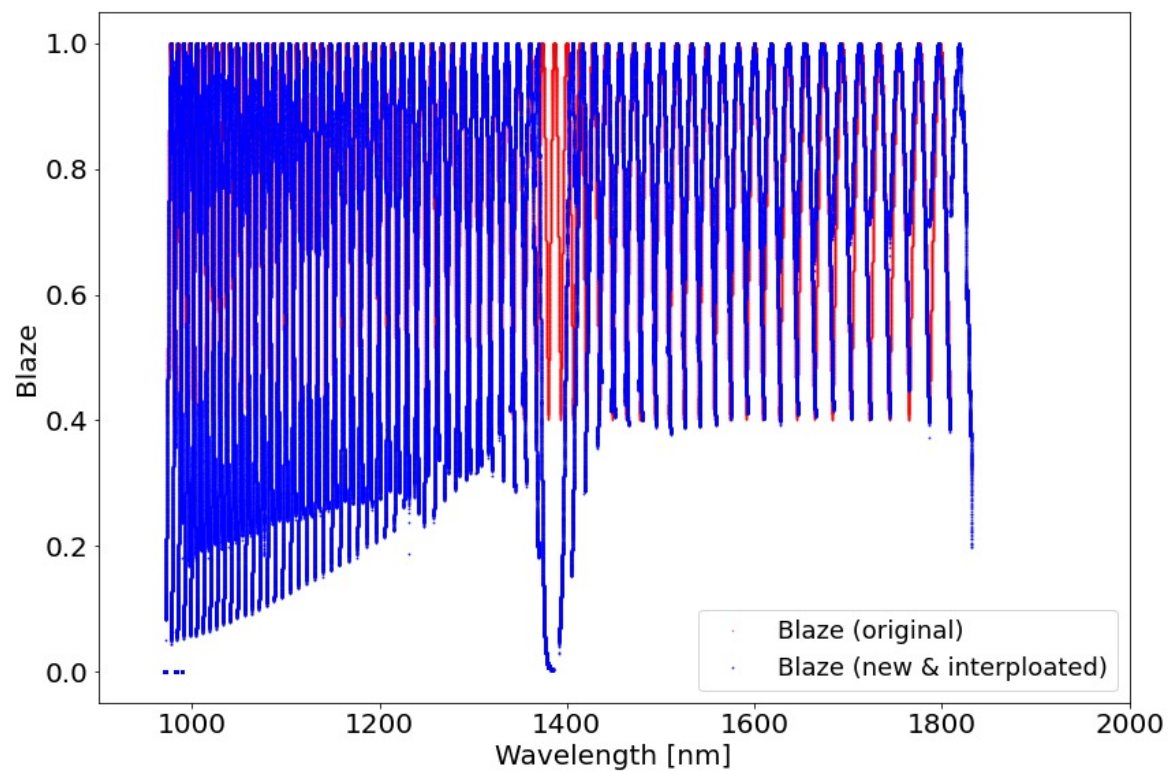
New:

NIRPS-3000-GEN-RP-108_3.4_NIRPS_Transmission_Budget
(up to date, "as built") by François Wildi
Excel File with tabs showing transmission for:

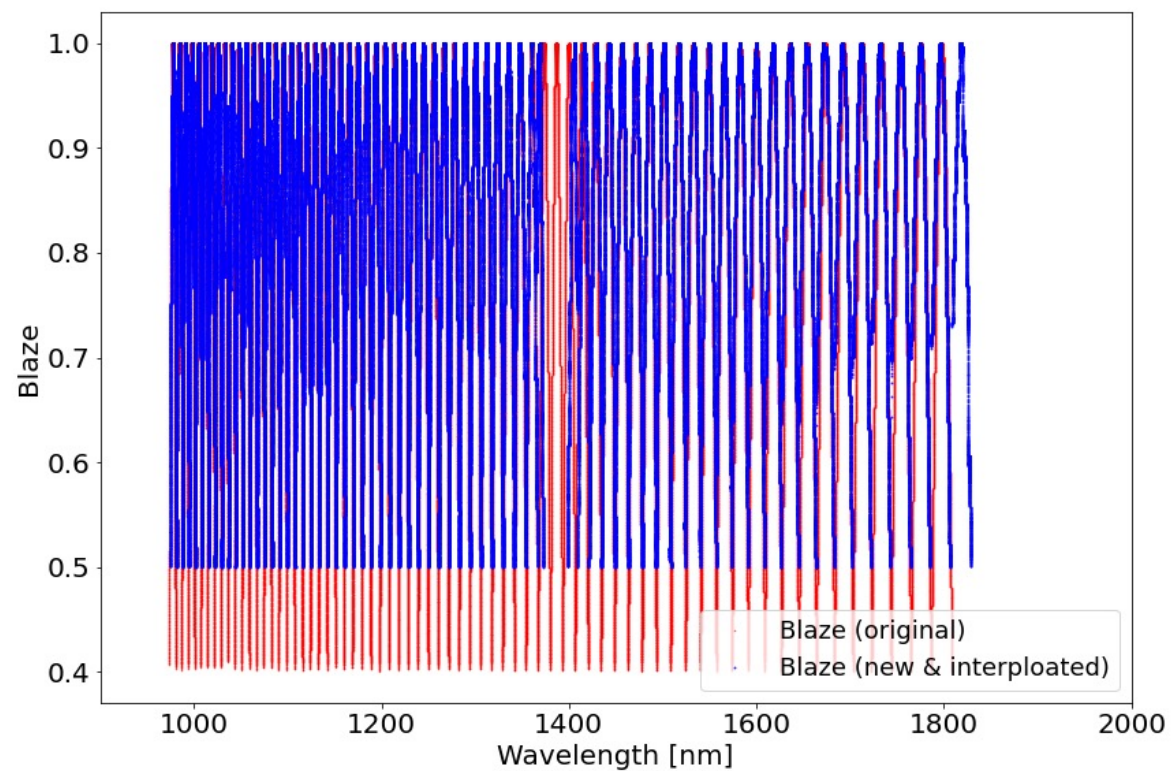
- Atmospheric transmittance from TAPAS model (same as old ETC)
- Telescope transmission (clean and dirty)
- Front-end (with mirror and from FP1) – WFS wavelength range
- Fiber throughput HA fiber
- Fiber throughput HE fiber
- Backend (YJH spectrometer)
- H4RG QE
- DM241
- Fiber coupling HA & HE for Imag vs seeing

Can use recent wave matrix **NIRPS_WAVE_MATRIX_A.fits** by Danuta for wavelengths of each order and /data/NIRPSDRS/DRS-2.2.11/reduced/2021-06-15/r.NIRPS_HA_FLAT166_0002_BLAZE_A.fits for blaze of each order / wavelength

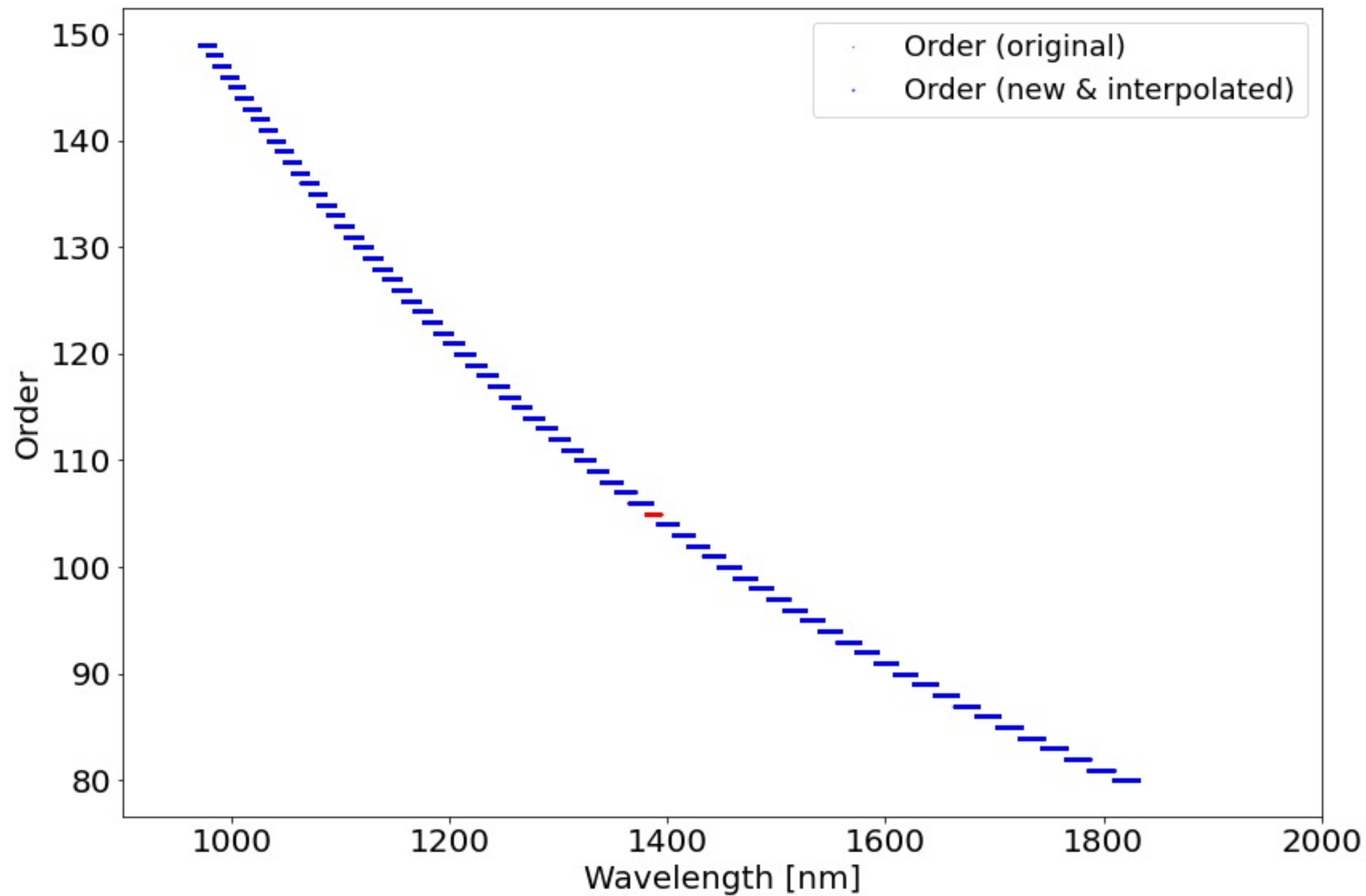
Total Spectral Range

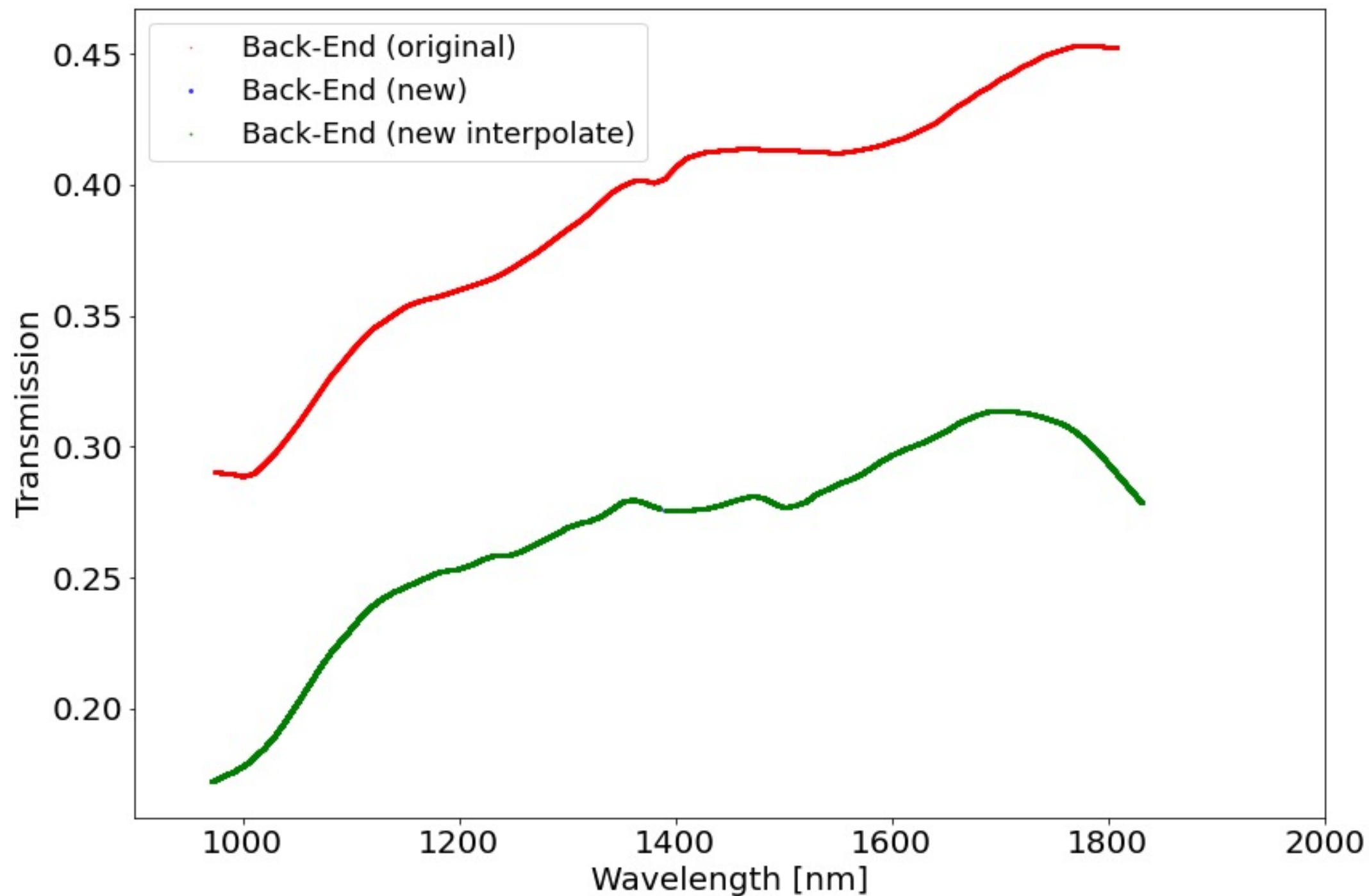


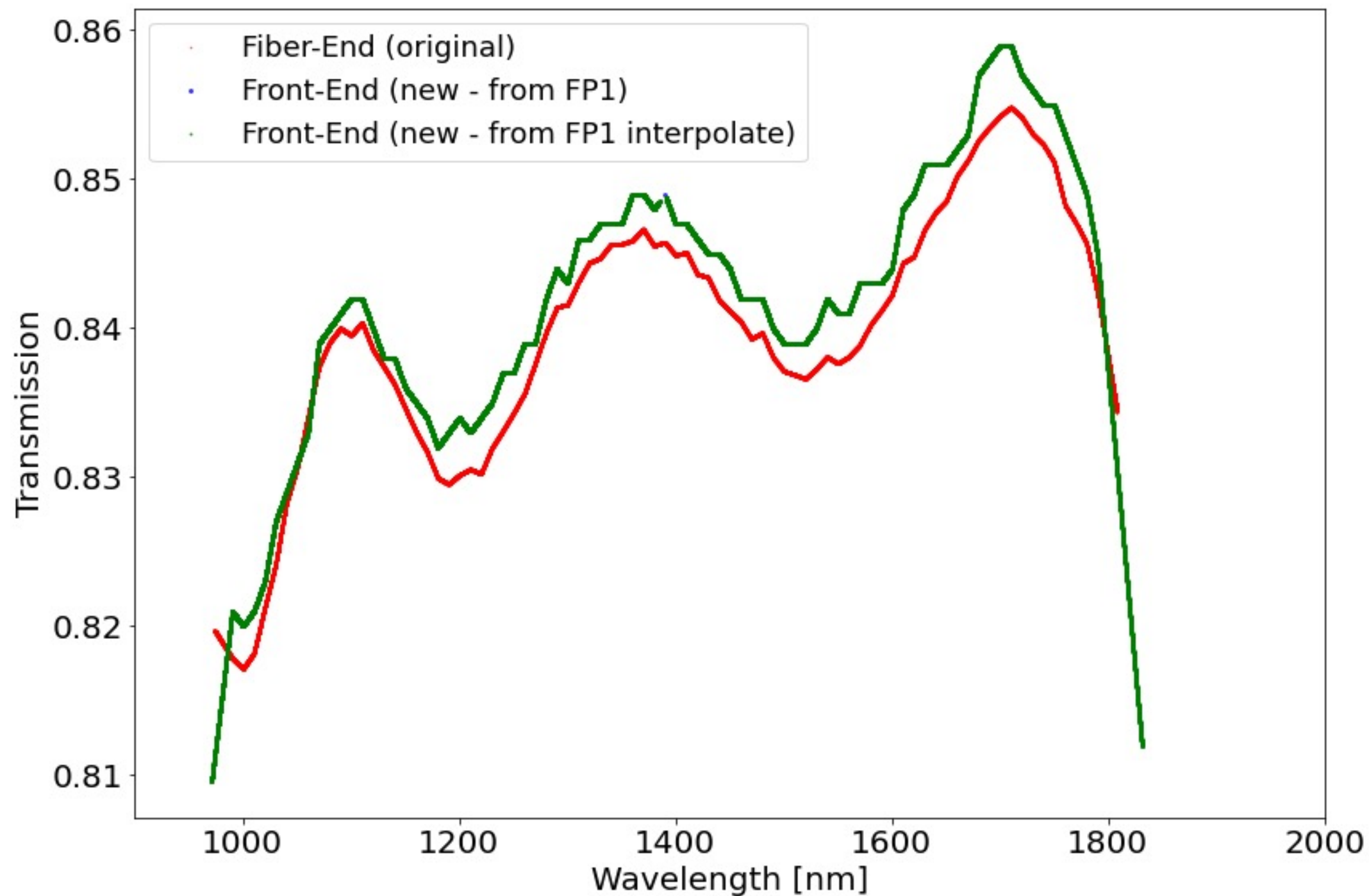
Free Spectral Range

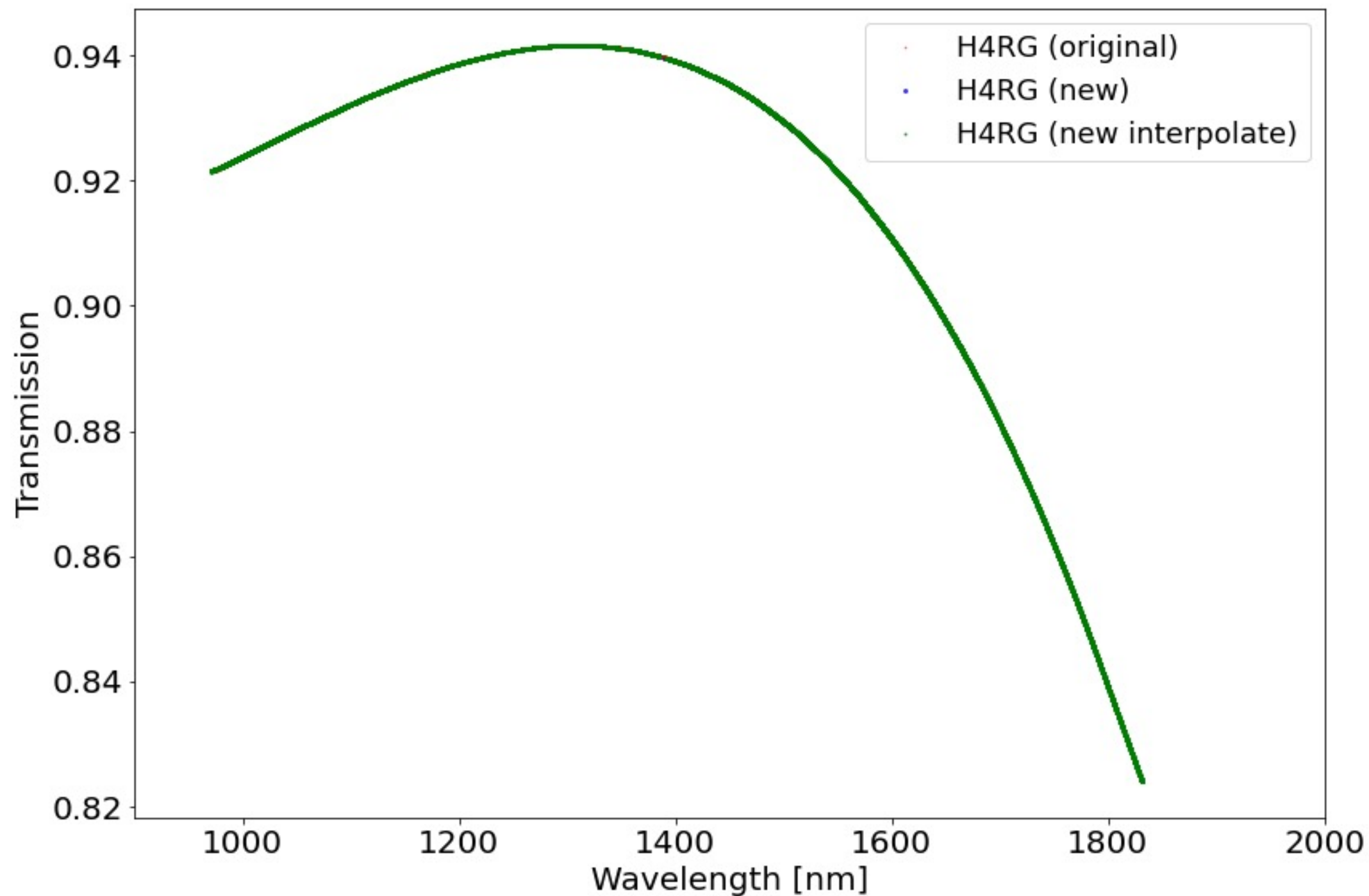


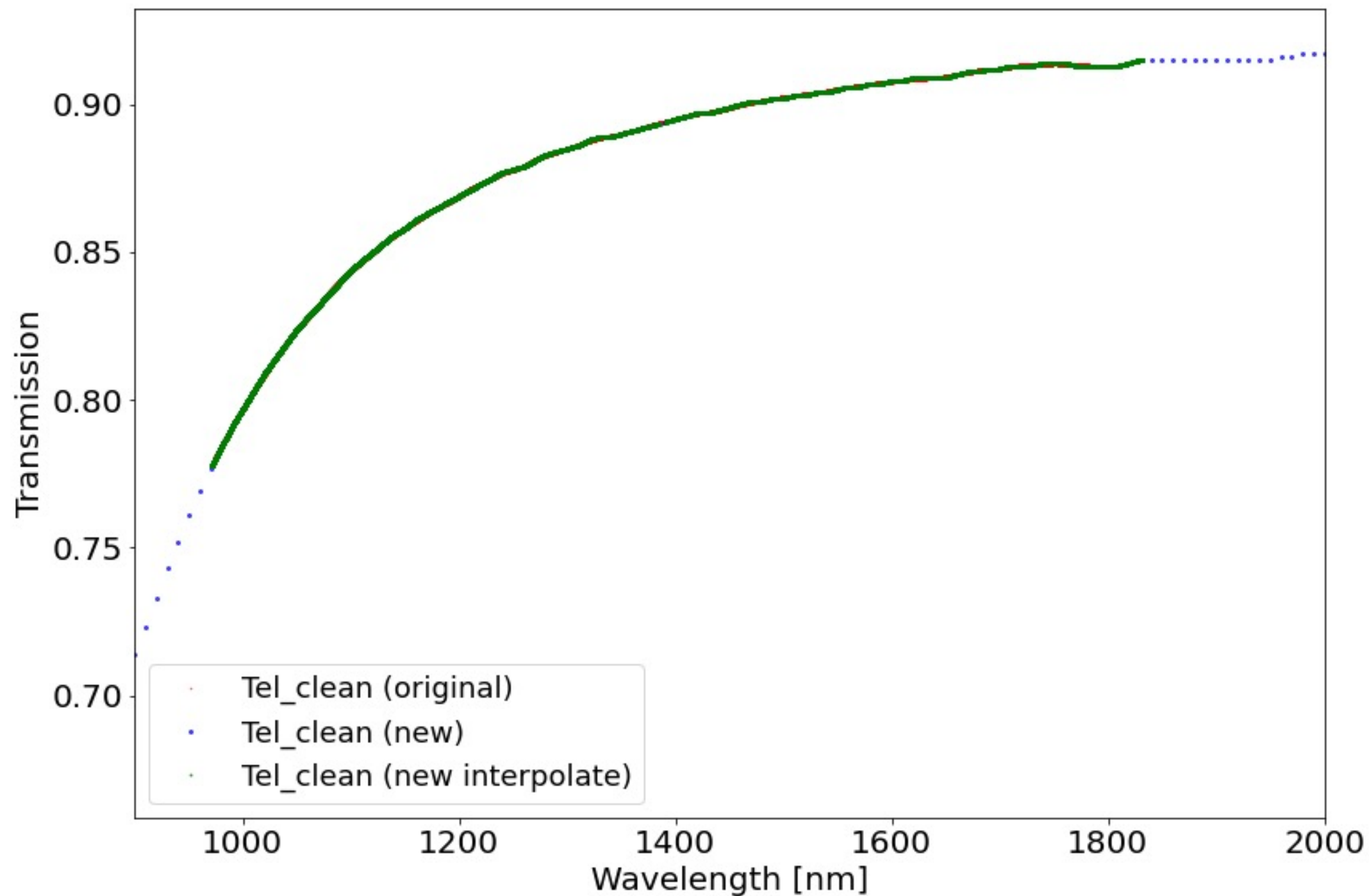
*rest of plots show values using TSR – can be switched to FSR in code update_effs.py

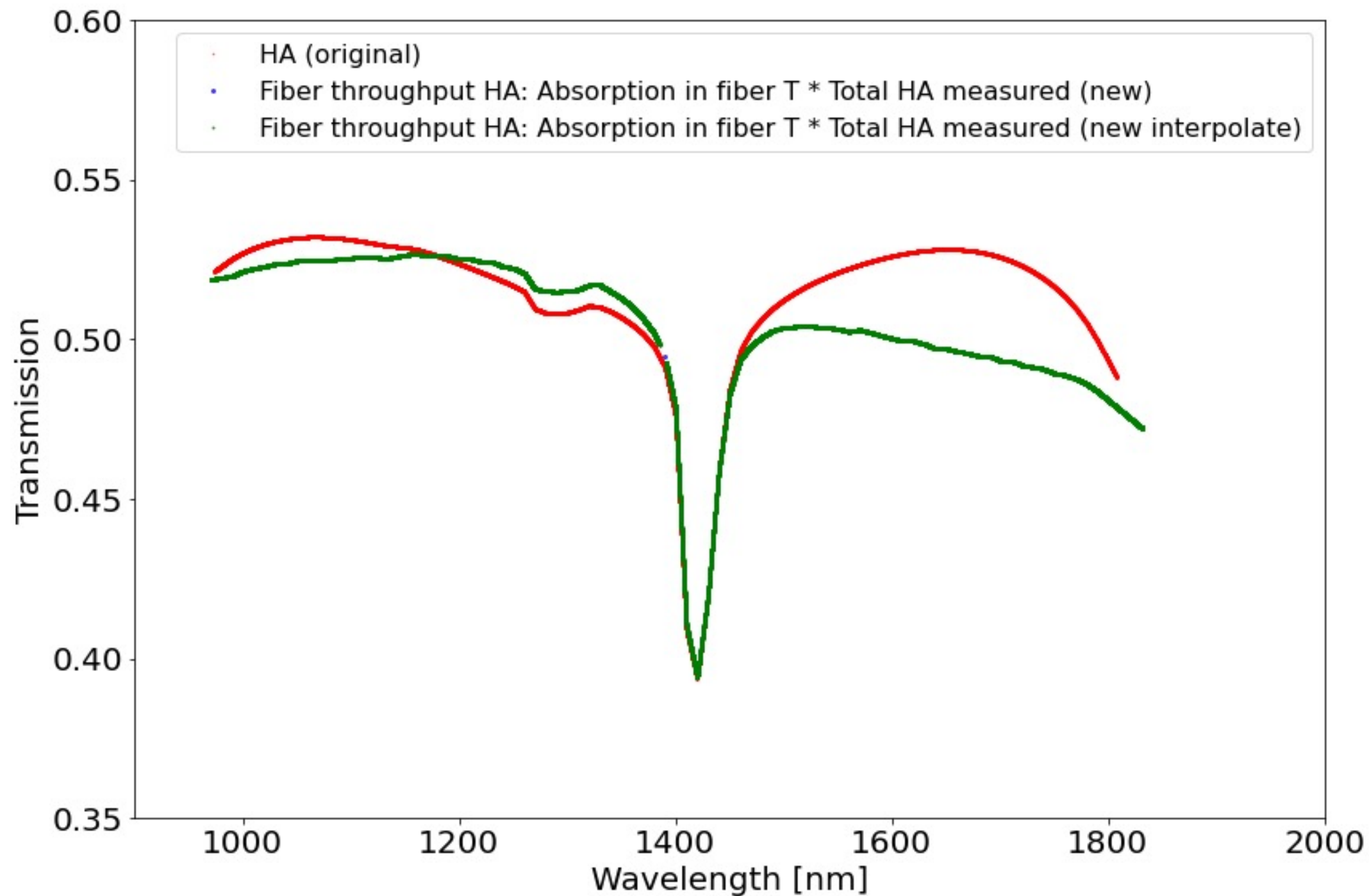


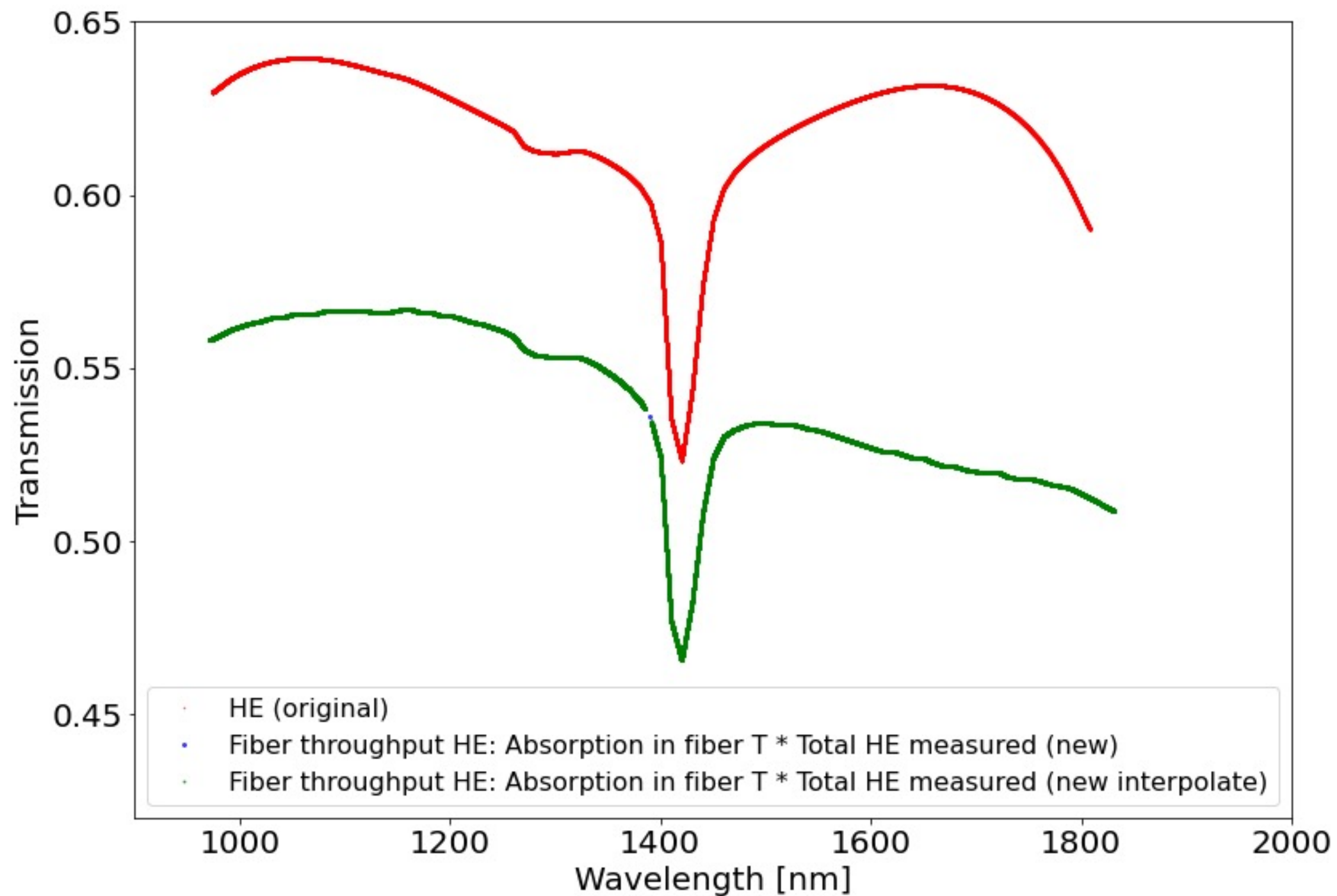




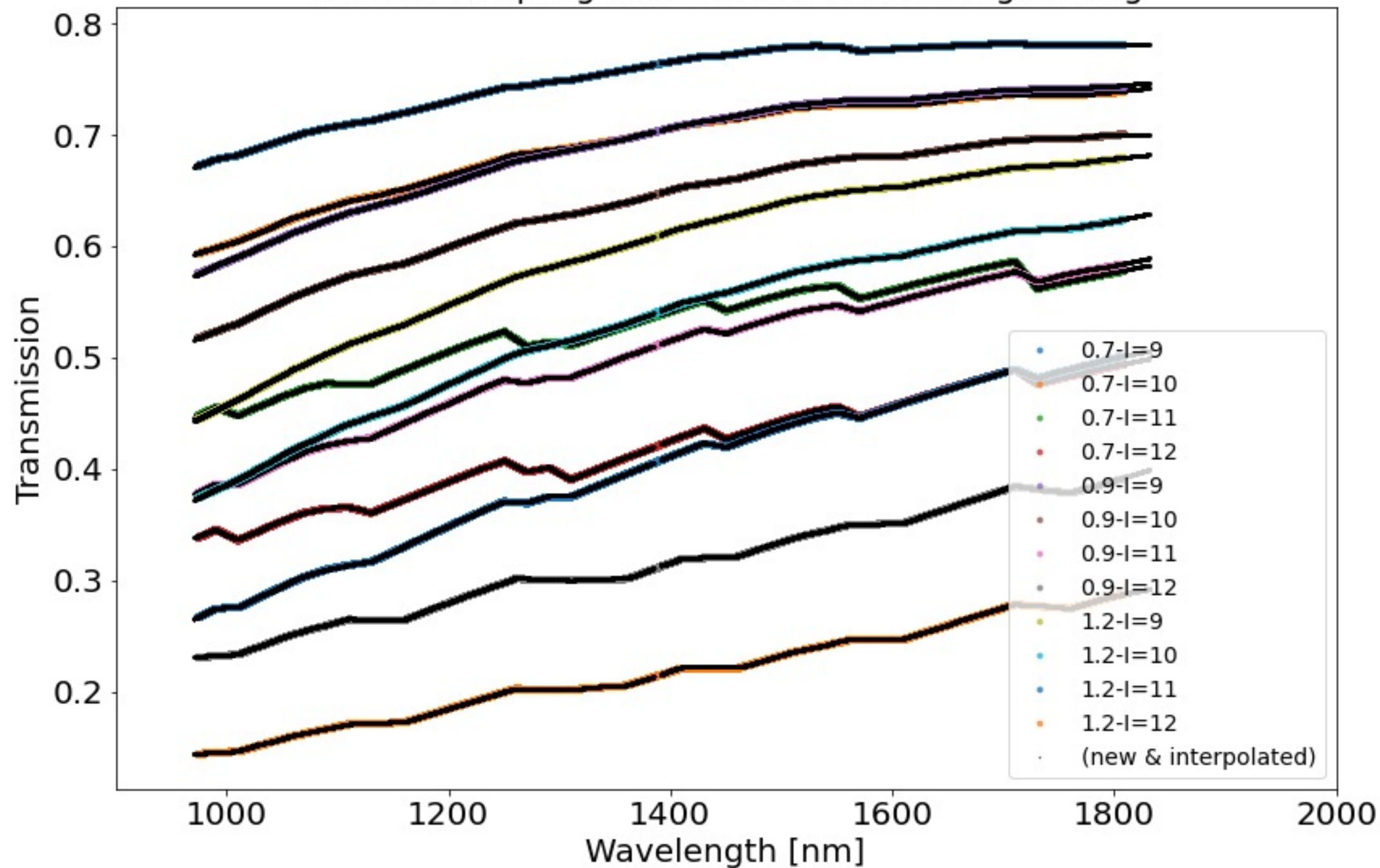








HA Fiber Coupling Transmission with Seeing & Imag



HE Fiber Coupling Transmission with Seeing & Imag

