Applying IGM in sims_photUtils

What does it do?

- Uses IGM Lookup Tables available between z=1.4-2.9

- Applies these transmission values to a previously redshifted SED

- Returns new SED with IGM transmission factored in

How does it work?

- Incoming SED is already redshifted to specified z value

- Redshifts wavelengths of 2 lookup tables with nearest z

- Resamples these transmission curves to match wavelength range of incoming SED
  - Transmission curves do not go below 300nm
  - Add values of 1.0 beyond upper wavelength limit of transmission curves

How does it work?

- Linearly interpolate two transmission curves to get a final transmission curve at redshift of SED

- Multiply transmission curve by SED

- Returns new SED object due to wavelength limits