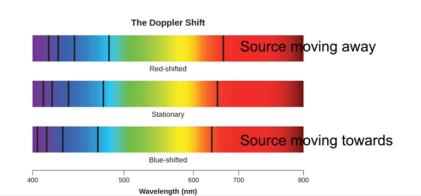
The Doppler Effect

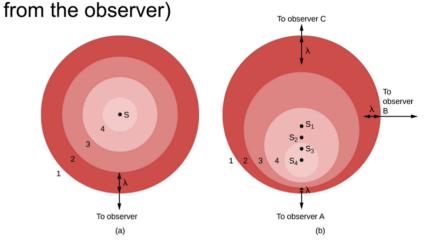
The Doppler effect: as a source of waves moves, the frequency & wavelength of the waves changes



The Doppler effect causes changes in the wavelengths of spectral lines



The change in wavelength depends on the <u>radial</u> <u>velocity</u> of the source (velocity towards or away



The Doppler formula $\frac{\Delta\lambda}{\lambda} = \frac{v}{\lambda} = \frac{v}{\lambda}$ radial velocity of source wavelength of line when stationary v speed of light