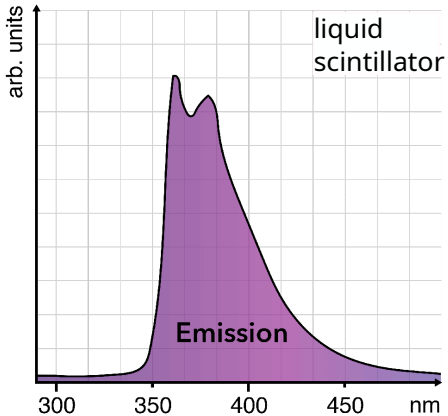


## photon creation



## wavelength shifting

