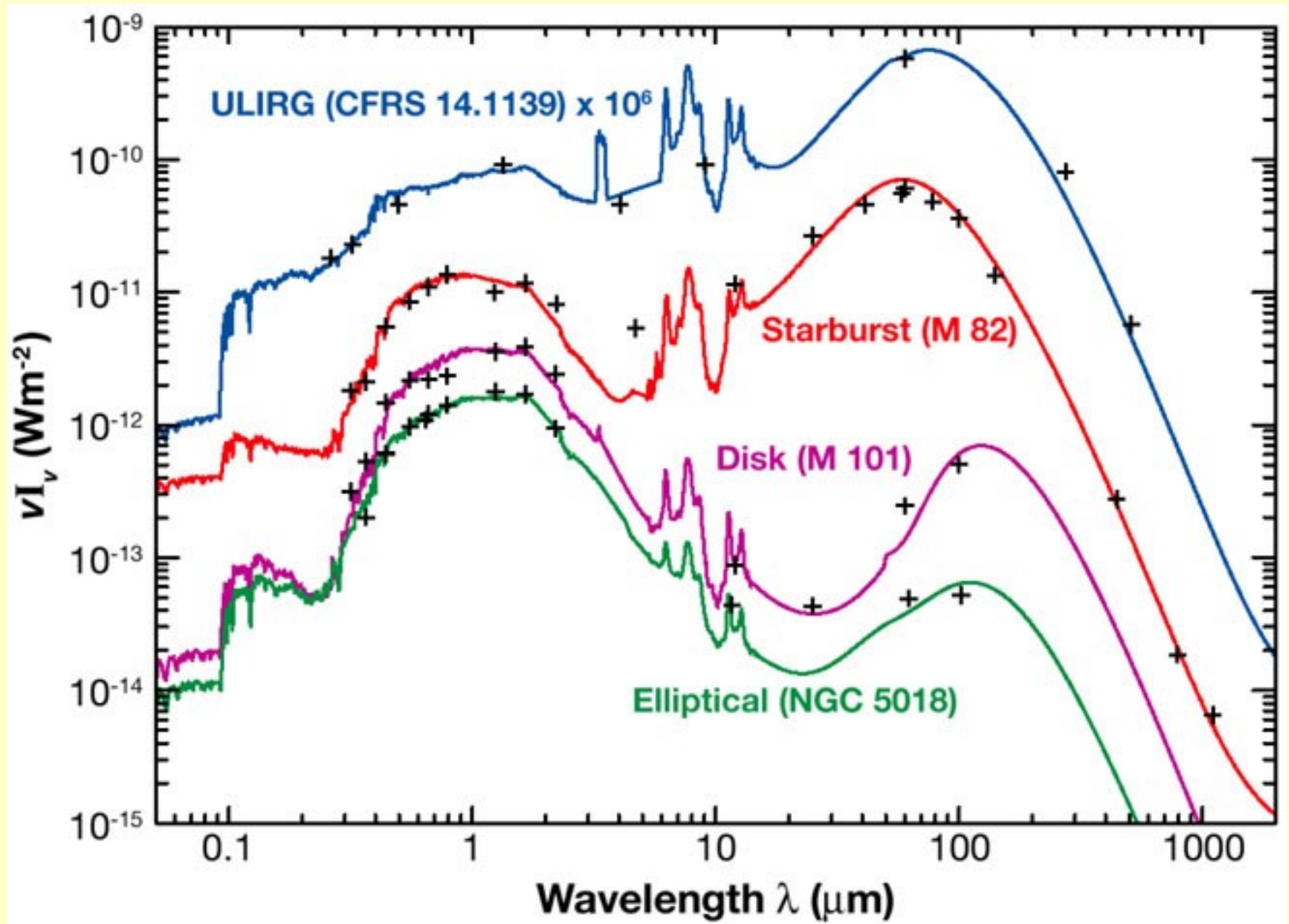
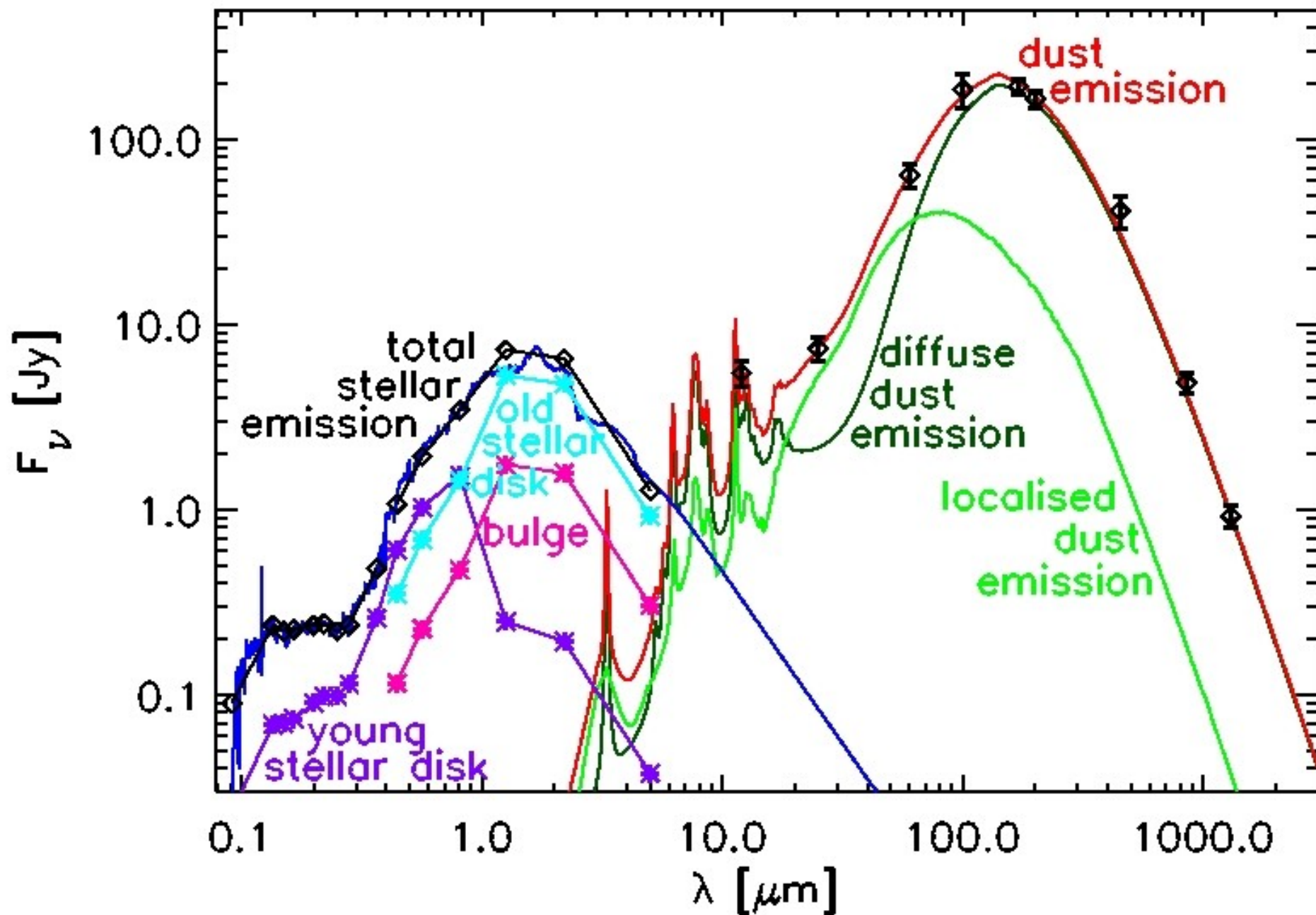


SED (Spectral Energy Distribution) of different gals

From <http://elte.prompt.hu/sites/default/files/tananyagok/InfraredAstronomy/ch10s02.html>



SED of a Spiral galaxy

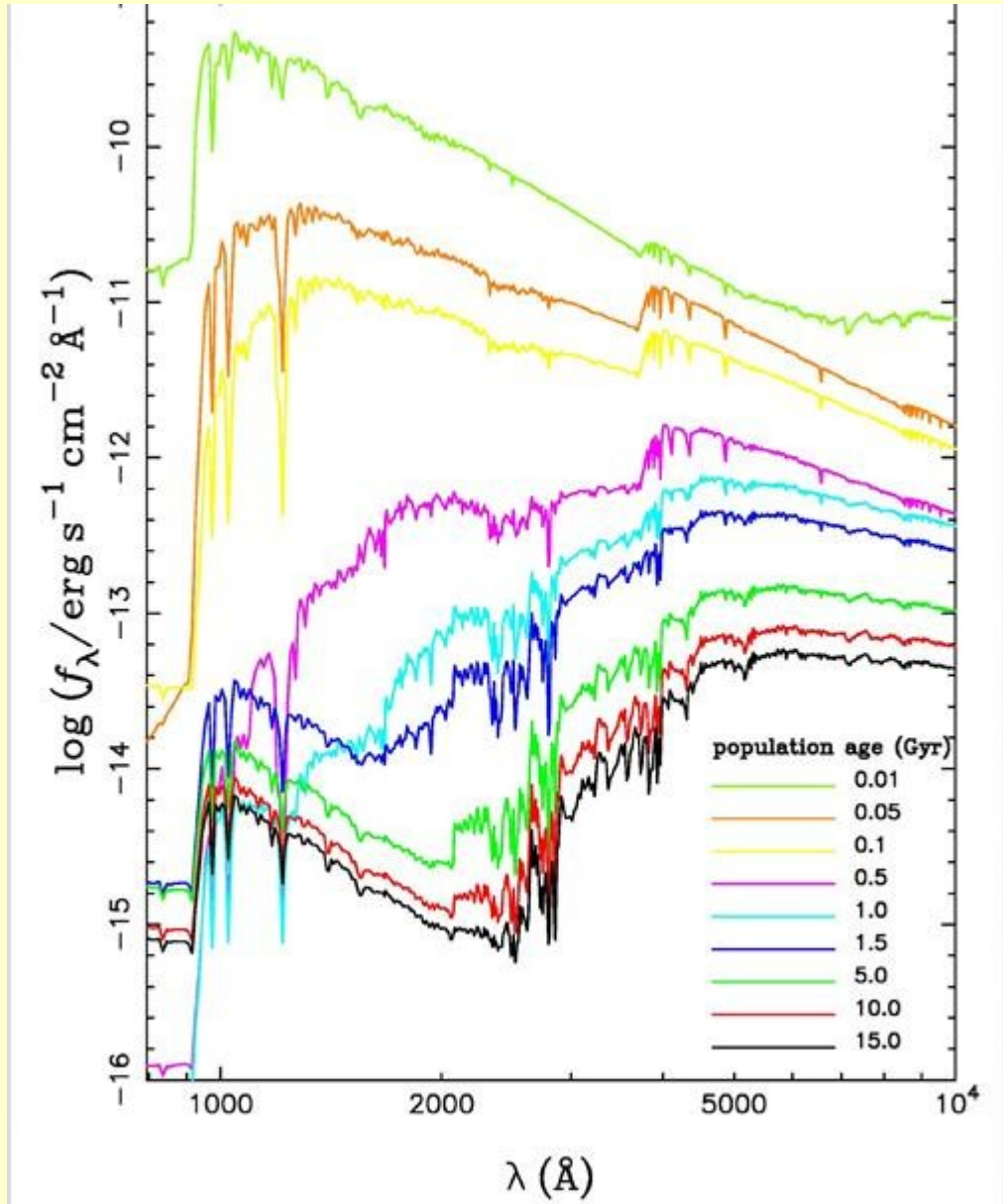


From <http://www.star.uclan.ac.uk/~ccp/main.shtml>

Credit to Popescu et al. 2011

Evolution model for an Elliptical galaxy (E)

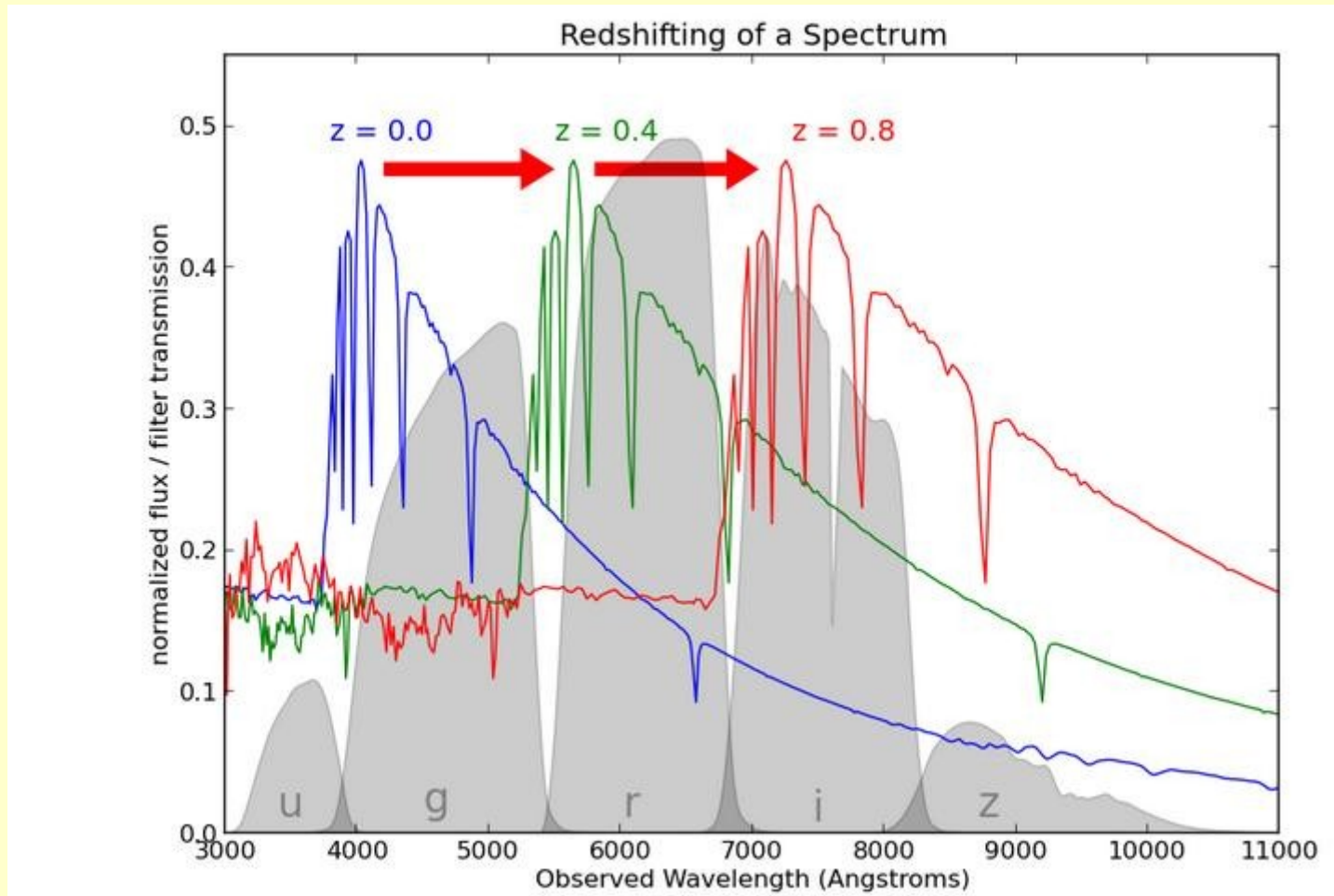
The evolution of spectral energy distribution (SED) of elliptical galaxies. The far-UV part is dominated by hot subdwarf stars from binary interactions when the age is larger than 1 Gyr (Han et al., 2007, MNRAS, 380, 1098).



Credit to

<http://www1.yao.ac.cn/~zhanwenhan/bps.html>

Vega “redshifted”



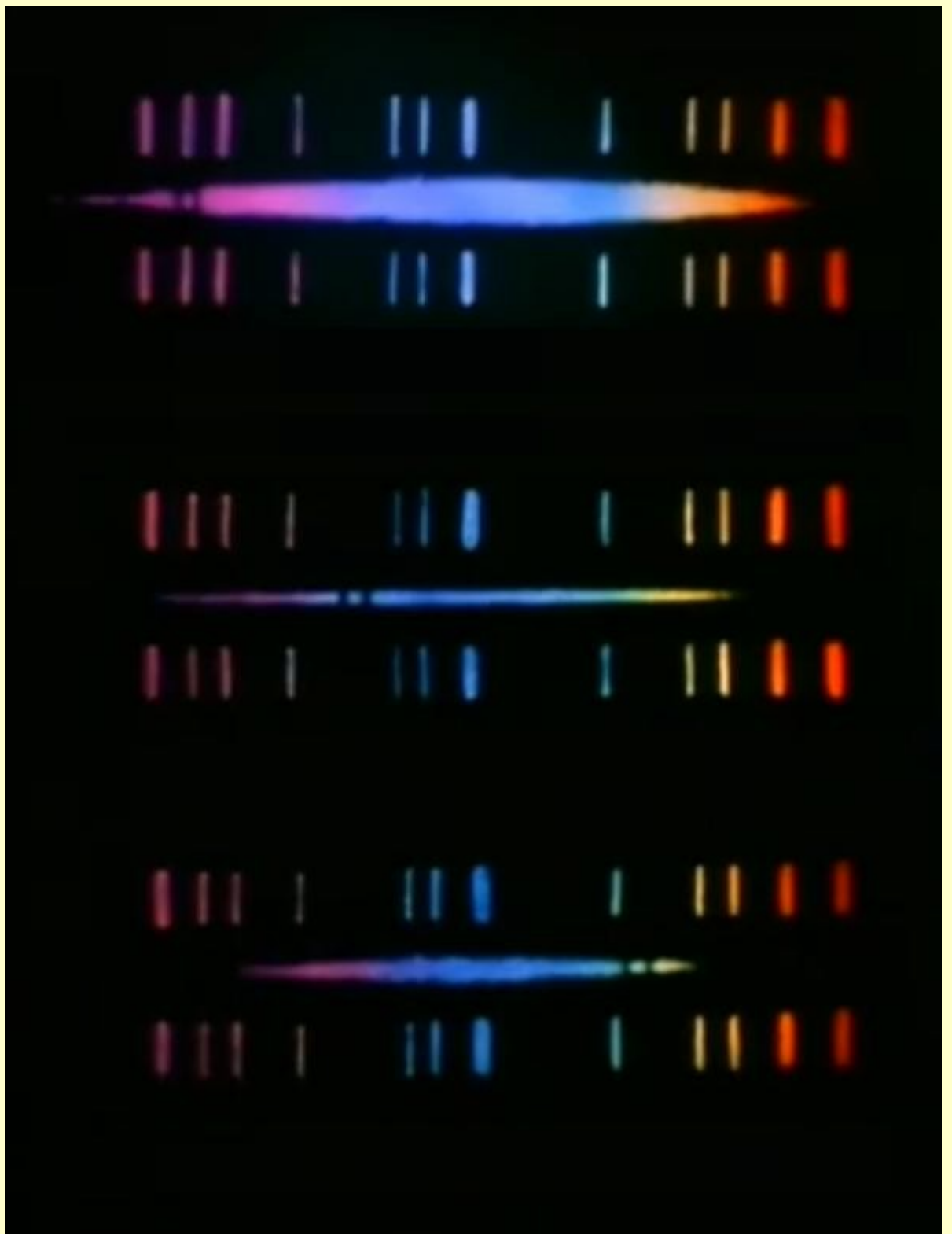
Credit to scikit-learn

http://www.astroml.org/sklearn_tutorial/regression.html

2D spectra

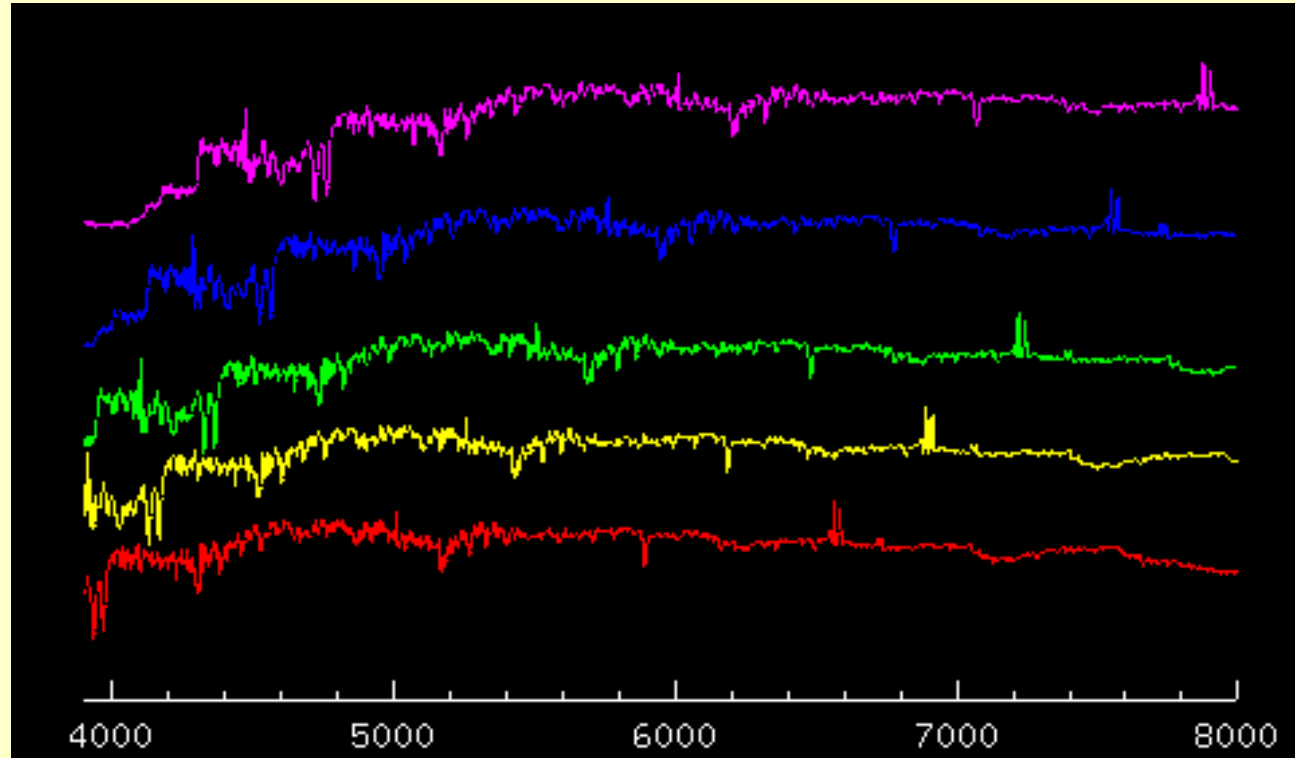
Redshifted

**Look at the
H and K Lines
of CaII**



Spectra of E redshifted...

Are you able to estimate z ?



Ly alpha break for different z and instruments

(LSST, VISTA, Spitzer satellite)

Fiducial Lyman-break galaxy spectral energy distribution as a function of redshift.

