

- Redshift – light moves towards red end of the spectrum

Speed of Galaxies

- Speed of galaxies AND amount by which light from a galaxy is red-shifted...
 - ...may be determined by measuring the change in wavelength of light coming from that galaxy

$$\frac{\text{change in wavelength}}{\text{reference wavelength}} = \frac{\text{velocity of a galaxy}}{\text{speed of light}}$$

$$\frac{\lambda - \lambda_0}{\lambda_0} = \frac{\Delta\lambda}{\lambda_0} = \frac{v}{c}$$

- λ_0 = the wavelength of light for a stationary observer (reference wavelength, measured in lab) → when it was emitted BEFORE it was red-shifted
- λ is the measured wavelength
- $\Delta\lambda$ is the change in wavelength
- speed of light = 3.00×10^8 m/s

Speed of Galaxy related to its distance

- Hubble discovered that the speed of a galaxy is proportional to its distance from us

8.17P describe the red-shift in light received from galaxies at different distances away from the Earth

The Red-shift of GALAXIES

- The light coming to us from distant galaxies is redshifted (they are moving AWAY from us)

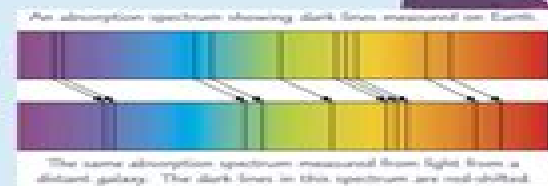
Hubble's LAW

- Furthermore, the greater the distance to the galaxy, the greater the redshift
 - The more distant galaxies are moving away from us faster

Light from Galaxies is RED-SHIFTED

Most galaxies seem to be moving away from each other, because:

- Different elements absorb different frequencies (OR wavelengths) of light
- When light is passed through a sample of an element, a pattern of dark lines is produced – with a dark line at each of the frequencies in the visible part of the EM spectrum that the element absorbs
- When we look at light from distant galaxies, we see the SAME patterns BUT at slightly lower frequencies (and so lower wavelengths) than they should be
- Patterns have been shifted towards the red end of the spectrum – red-shift



8.18P explain why the red-shift of galaxies provides evidence for the expansion of the universe

- Measurements of the red-shift suggest that All the distant galaxies are MOVING AWAY from Earth very quickly – same result in whichever direction you look in



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