



EM =

electromagnetic

EM waves are due to oscillating charged particles creating B and E fields as it moves through space







Doppler and EM Waves

- Still applies
- approaching
 - > higher f = blue shift
- receding
 - > lower f = red shift
- $f' = f(1 + (v_{rel}/c))$
- v_{rel} = relative speed and is <<< c

Doppler Effect



Measuring the relative velocities of stars by the Doppler shift.

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Polarization of light - demo overhead



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