

7. Forming a spectrum A. spectrum - key to determining the composition : conditions of an astronomical body like a star B. Types of spectra used by astronomers 1. continuous spectrum - all the wolors of light The atoms in the source of the light are so tightly packed together, it is hard to distinguish one atom's colors from another - usually solids or dunse gases (star interiors) 2. emission line spectrum (bright-line) - only see a few particular wavelengths of colored light - usually produced by hot gas, ourora, interstellar gas would 3. obsorption line spectrum (dark-line) - only see a few dork lines in a rainbow - when light from a not, dense object posses thru a cooler gos between it and the observer, nearly all stars See page on the Dopple Shift. Luminosities of Stars - The Magnitude System