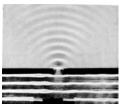


Light

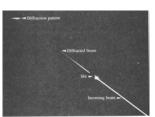
- It's a wave!
 - Does same thing as water waves.



Real water waves in real ocean, passing through narrow opening at entrance to harbor.



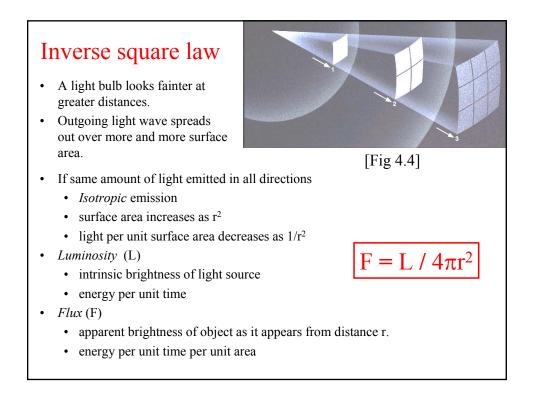
Real water waves in lab, passing through narrow slot.

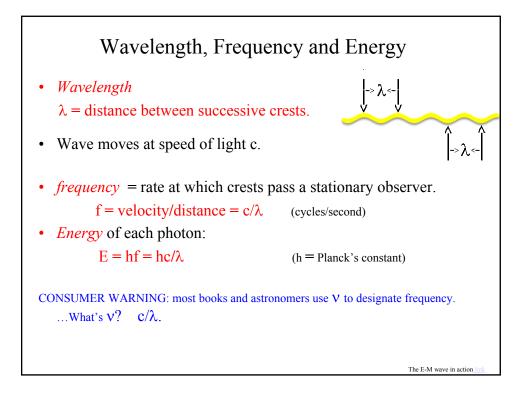


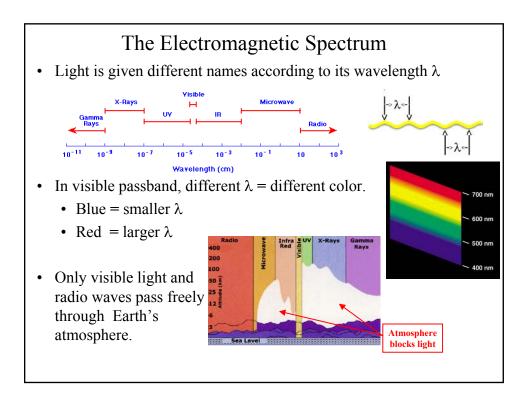
Example: Diffraction.

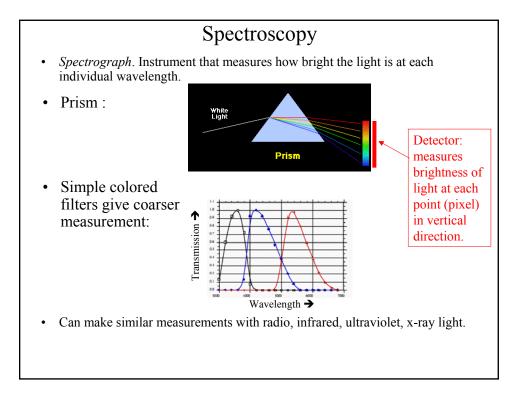
Light wave in lab, passing through narrow slot.

- But no! It's a particle!
 - Called *photons*.
 - You can see them hit... one by one... each with same energy.
-so it's *both* a wave and a particle.

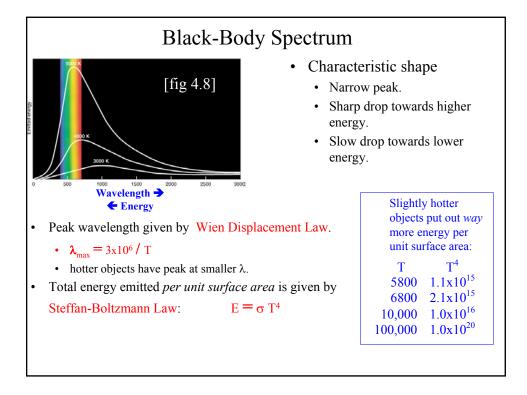


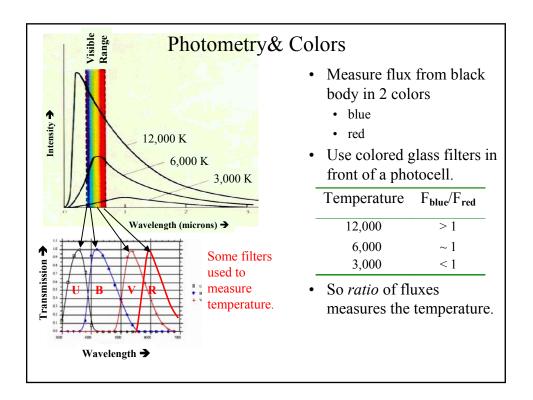


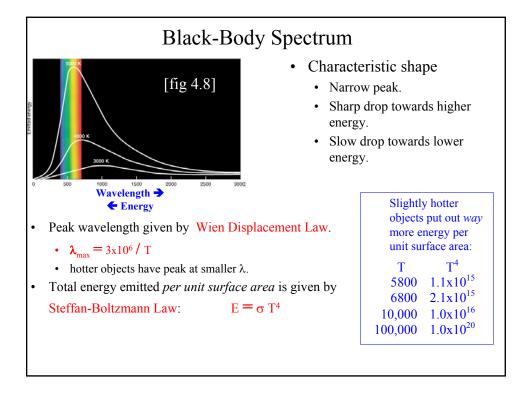


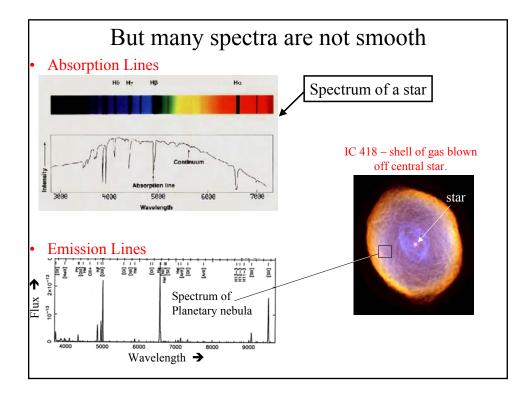


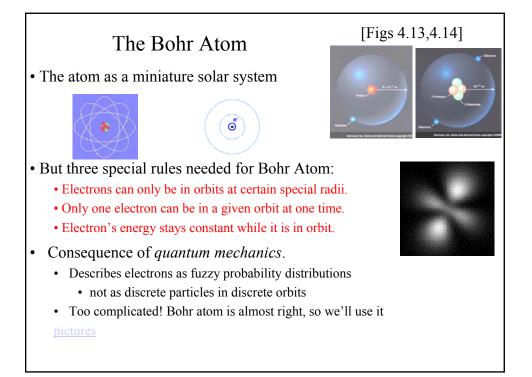
	Black	kbod	ies	
Heat up a fryinIt glows moreIt changes colored	brightly		-	tter
		emperatu		Color
	° K	emperatu ° C	re ° F	Color
Completely cold.				Color Does not emit light
Completely cold. Body temperature.	° K	°C	° F	
1 5	° K 0	[°] C -273	° F -459	Does not emit light
Body temperature.	° K 0 310	[°] C -273 37	° F -459 99	Does not emit light Infrared

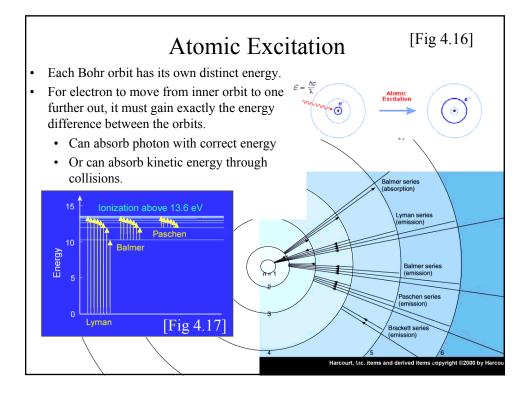


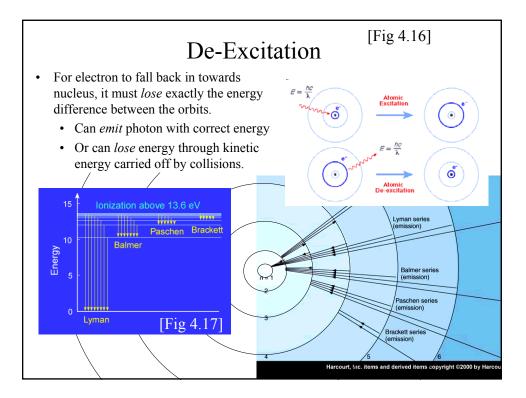


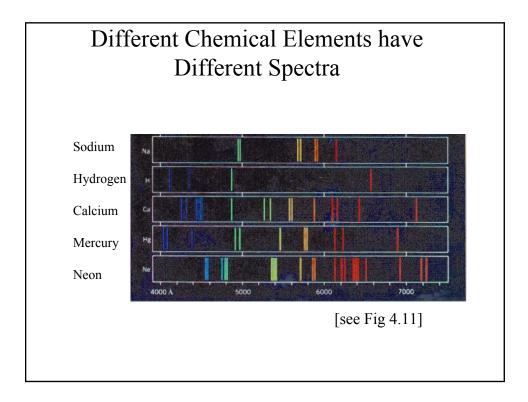


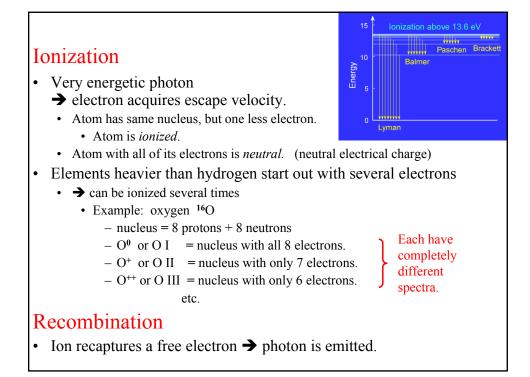


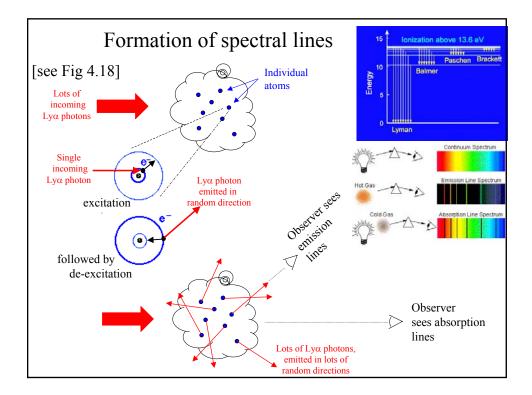


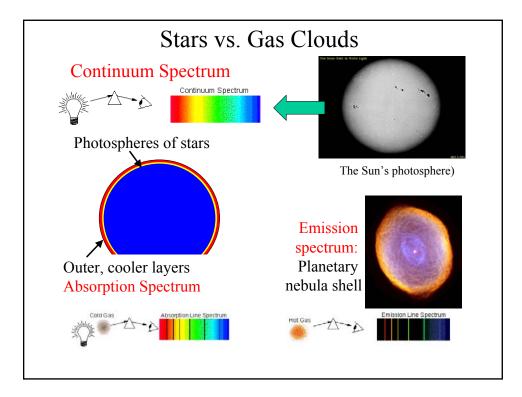


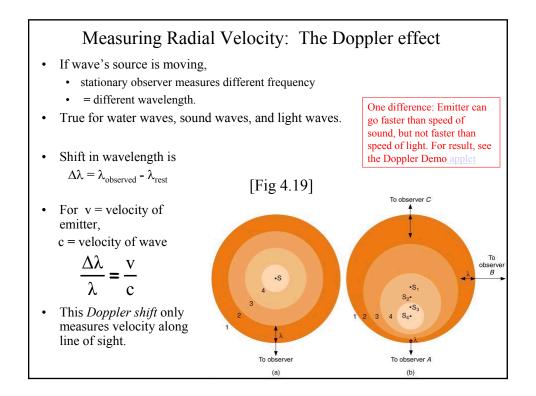


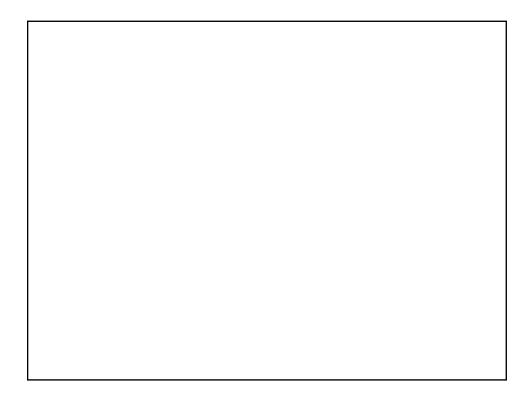


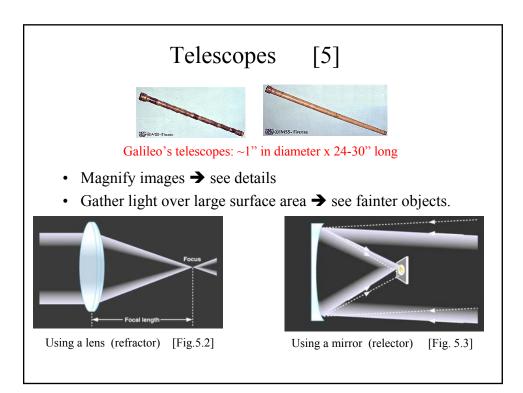


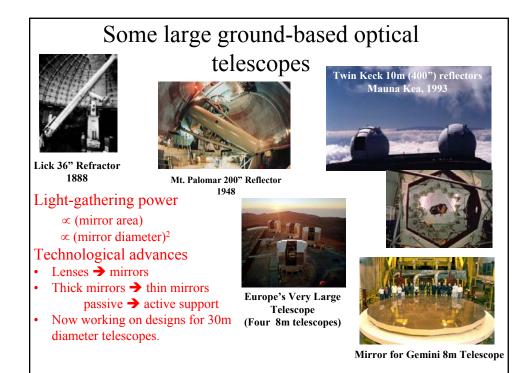


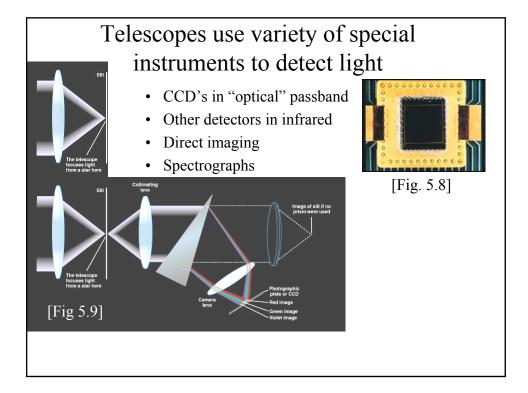


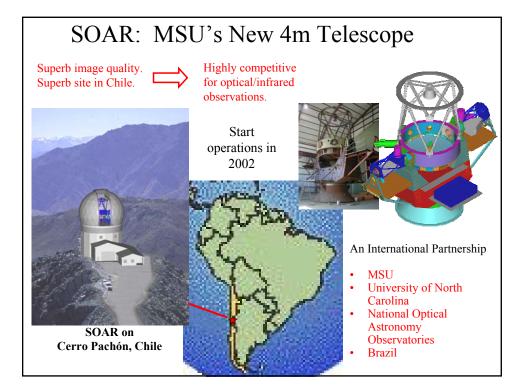


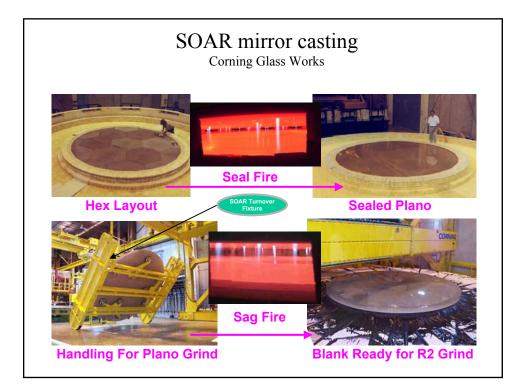


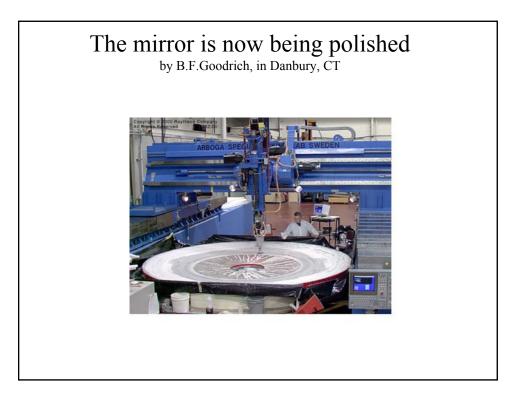












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