Class 20
Announcements

Exam #3
• Thursday Nov. 6th, next week!
• Similar to Exam #2 in format
• Covers Chs. 22 through 25, homeworks 7 and 8
• You will need: Single 8.5x11 handwritten crib-sheet, calculator, ID, #2 pencil

4th Midterm, Th. 20th Nov.
Final Exam, Monday 8th Dec., 5:45-7:45pm
Concepts

Interference and Diffraction (Ch 24)
- Constructive and destructive interference of light
- Single slit diffraction
- Double slit diffraction/interference
- Polarization
A black Ford Explorer with darkened windows is driving towards you. Holding your hand at arms length you can block light from the headlights from reaching your eyes but this doesn’t stop the boom boom booming high octane hip hop from reaching your ears because:

1. Light is a beam and cannot go round corners but sound is a wave and can
2. Light and sound are waves but EM waves behave differently than pressure waves of the air
3. The wavelength of light is much shorter than the wavelength of sound
4. The coolest moosic just cannot be stopped