

PHY385-H1F Introductory Optics
 Class 14 – Outline: Section 7.1 + a look ahead at Section 13.1

- Resolution
- Principle of Superposition
- Standing waves in 1D and 2D
- Blackbody Radiation
- Stefan-Boltzmann Law
- Wien Displacement Law
- Planck’s Radiation Law
- Boltzmann’s Distribution

Test on Nov. 10

- The 50 minute test on Thursday, Nov. 10 will contain 4 long-answer questions (no multiple-choice)
- Questions 1-3 will be based on Chapter 5.
- Question 4 will be based on the sub-sections we covered in Chapter 7 and/or Chapter 13.
- As before, your calculator and textbook are allowed aids, plus a maximum of 2 pages of hand-written notes.

Blackbody Radiation

Blackbody Radiation

$$I_{\lambda} = \frac{2\pi hc^2}{\lambda^5} \left[\frac{1}{e^{hc/\lambda kT} - 1} \right]$$
