

Class 18



PHY 232
Spring 2003
Prof. S. Billinge

Announcements

Homework

Set #7 due on October 29th.
Complete set is now posted.

Feedback Quiz

1. **Helproom (3.7/5)**: too crowded | more TA's
2. **Exam review class (3.4)**: take a whole class | go over practice exam | more examples with numbers
3. **Textbook (2.5)**: too disorganized
4. **Lectures (3.8)** many suggestions; most popular being: more examples of conceptual questions | more HW probs covered.



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Concepts

Geometric Optics

Treat light as beams that travel in straight lines. Beams can be

- reflected,
- (absorbed)
- deflected “refracted”

Plot what is going on using ray diagrams

Calculate image properties using lens/mirror equations



The earth is heating up
because:

1. Greenhouse gases act like a blanket and keep it warm
2. More energy is arriving from the sun during the day than leaving at night
3. Earth is lower temperature than the sun so radiates energy at longer wavelenths
4. Mankind is irresponsibly returning the atmosphere to primordial compositions before the time of animals

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Feedback quiz

Split into groups of 2-3. Answer the following questions on paper and hand in on leaving. This can be done anonymously:

1. On a scale of 1-5 (5 is good) how would you rate the helpfulness to your learning of (1)helproom (2)exam review sessions (3)textbook (4)lectures
2. Suggest a constructive change that could be made to any or all of these resources to make them more useful



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