Quantum Mechanics
Physics 237

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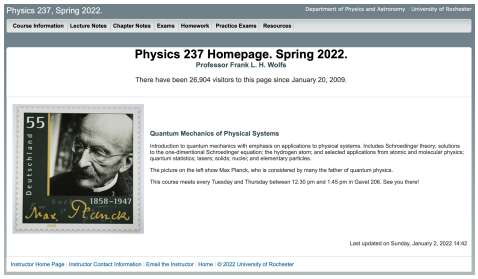
Lecture 2.

- Homework set # 1 is due this week on Friday at noon. Homework must be submitted as a single pdf file, to the dropbox link provided on the assignment.
- This week we will discuss Chapter 2.
- My office hours will start on Wednesday 1/19.
- The office hours of the TAs will start on Wednesday 1/19 and Thursday 1/20 (see the Phy 237 webpage and/or the Phy 237 calendar for the details).
- Workshops will start next week (1/24).

2

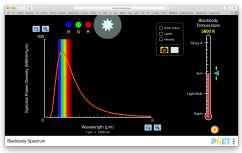
Let us have a look at the a few more details of the Phy 237 webpages.

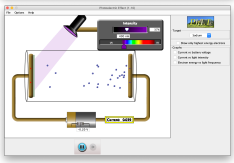


3

Let us have a look at the Phy 237 webpages in more detail.

- Here you will find:
  - My Chapter notes.
  - Homework assignments and solutions.
  - Practice exams and their solutions.
  - The real exams and their solutions.
  - Links to various simulations related to the material discussed in the course.
  - Other useful documents and links.
  - Some links not related to quantum mechanics.
  - Some areas are password protected. Password information will be distributed via email.





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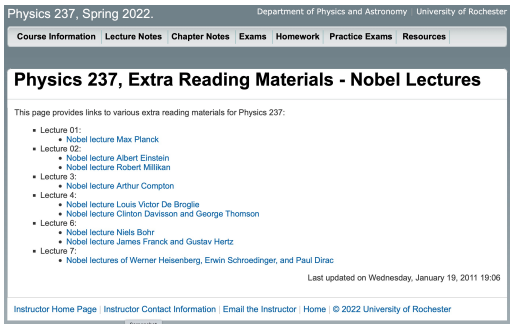
The nobel lectures of scientists who made major contributions to QM are accessible.



5

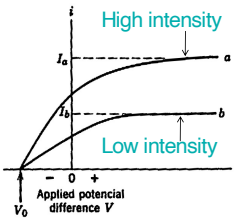
The practice exams are a good tool to prepare you for the Physics 237 exams.

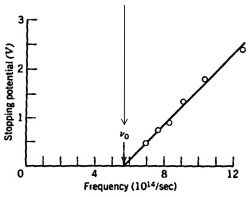
- Use the practice exams a few days before the actual exam to judge your understanding of the material.
- Take the entire exam at once and grade it, using the posted solutions, to determine on what areas you need to focus.
- And yes, there will be questions that may not be directly connected to QM but were discussed in class.

6

The Photoelectric Effect.

Below 5.8×10^{14} Hz no electrons are emitted.





Same wavelength of light.
Different intensities.

7

4 Minute 14 Second Intermission.

- Since paying attention for 1 hour and 15 minutes is hard when the topic is physics, let's take a 4 minute 14 second intermission.
- You can:
  - Stretch out.
  - Talk to your neighbors.
  - Ask me a quick question.
  - Enjoy the fantastic music.

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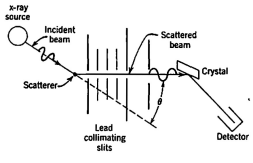
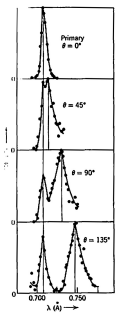
The Compton Effect.





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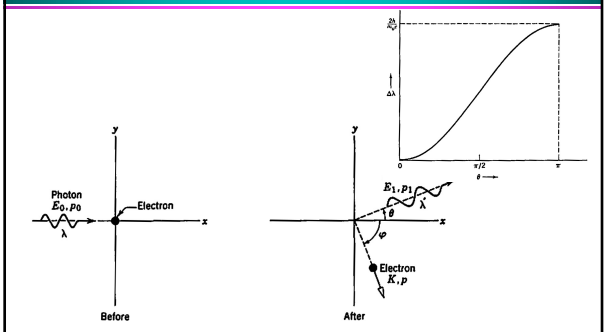
The Compton Effect.



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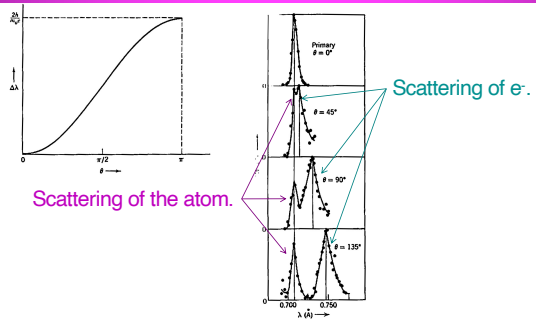
The Compton Effect.



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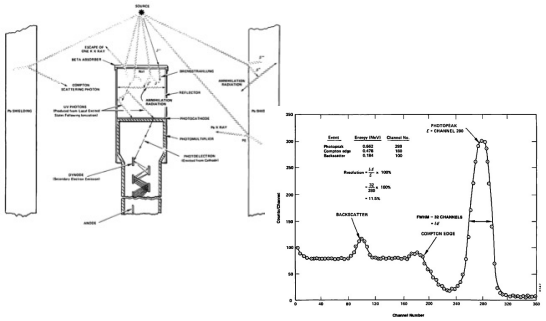
Detecting photons.



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ENOUGH FOR TODAY?

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