
Quantum Mechanics

Physics 237

Frank L. H. Wolfs
Department of Physics and Astronomy
University of Rochester

Important fact: the biggest lock in the world was opened in IJmuiden last week.



<https://nos.nl/artikel/2414620-grootste-zeesluis-ter-wereld-in-ijmuiden-geopend-een-stukje-hollands-glorie>

Another fact: February 1 is the start of the year of the tiger (but no holiday in the USA).



<https://www.shutterstock.com/image-vector/happy-new-year-2022-tiger-china-1760053289>

Most important fact: February 1 is my father's birthday.

- February 1 is my father's birthday.
- Last year, he celebrated his 90th birthday.
- I am usually in the Netherlands on this day.

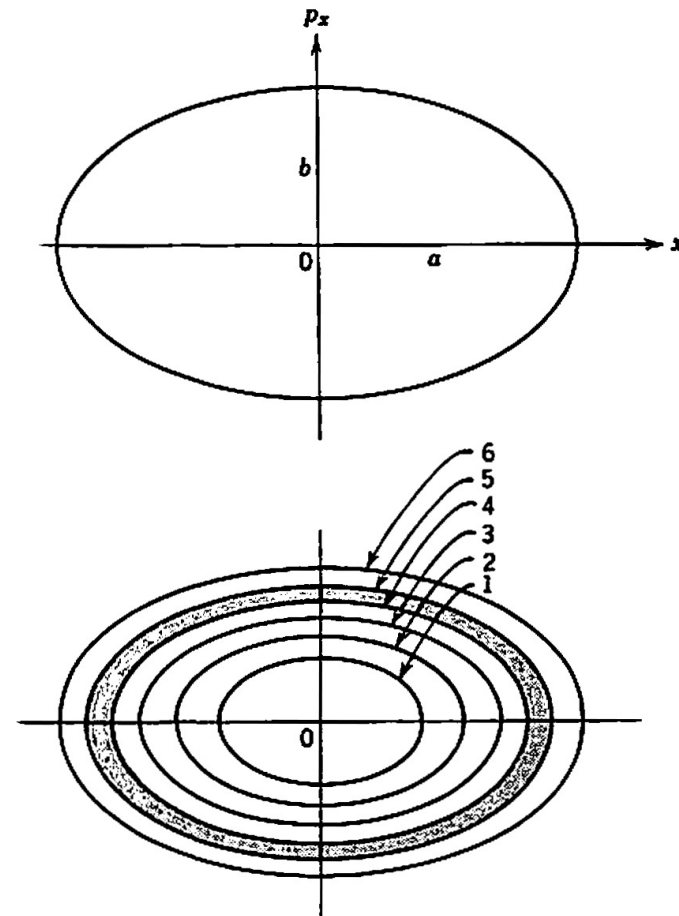


Course Information

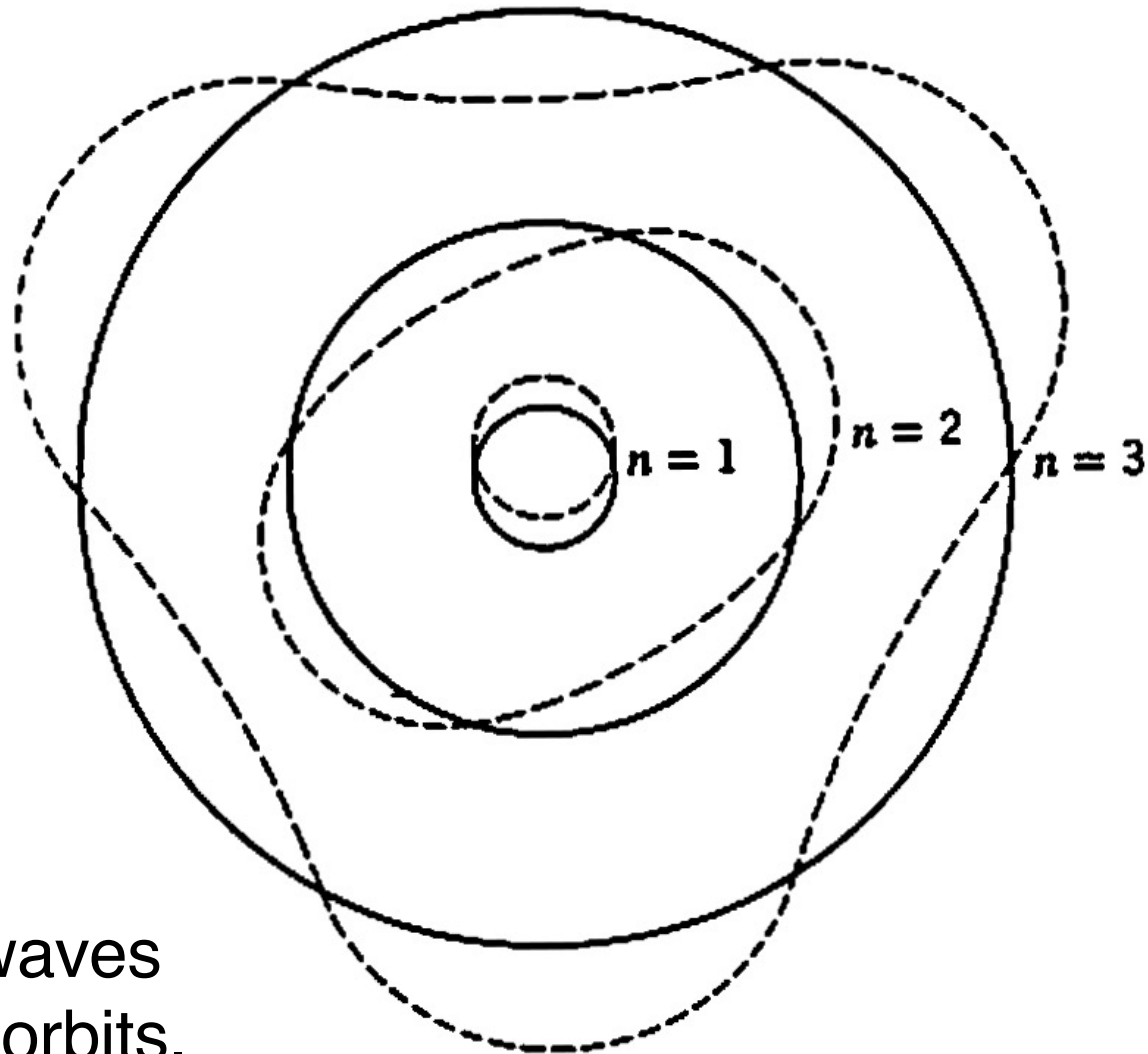
- Starting this week, all course components (lectures, office hours, and recitations) will be in person. Zoom links will be used when needed due to for example travel delays.
- Today we will complete the discussion of Chapter 4 which will complete the material that is going to be covered on Midterm Exam # 1 (February 10).

Application of Wilson and Sommerfeld Quantization rule

- Example of the application of the Wilson and Sommerfeld quantization rule.



Geometrical interpretation of quantization rule.



De Broglie waves
on the Bohr orbits.

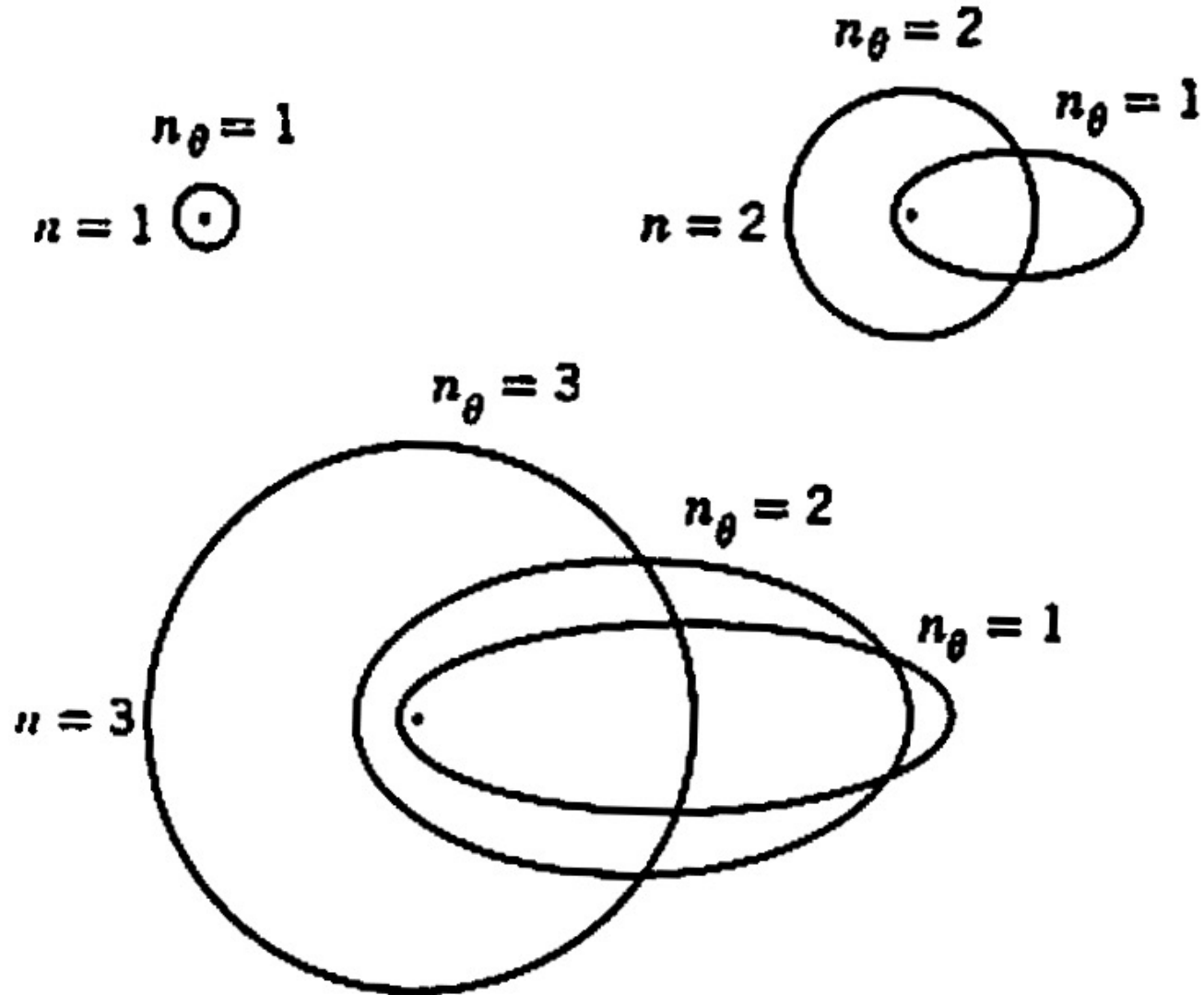


4 Minute 9 Second Intermission.

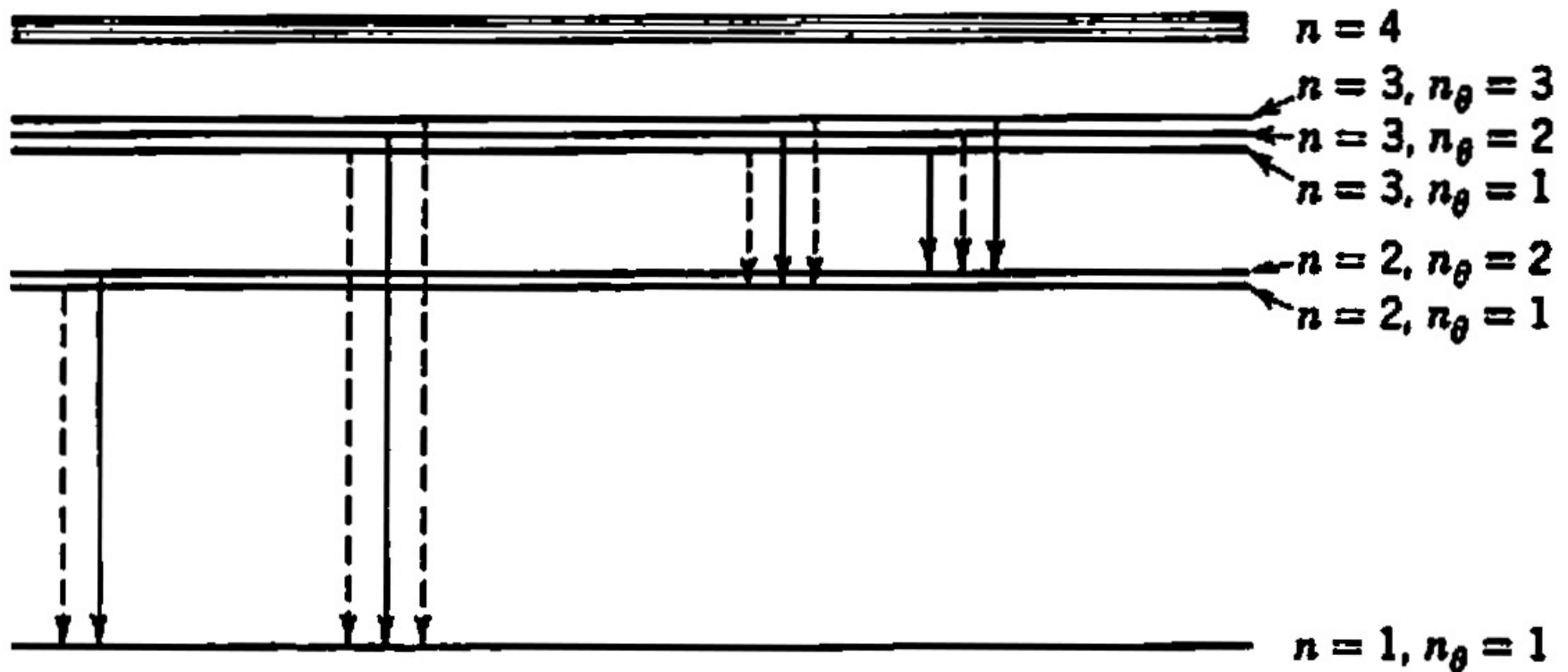
- Since paying attention for 1 hour and 15 minutes is hard when the topic is physics, let's take a 4 minute 9 second intermission.
- You can:
 - Stretch out.
 - Talk to your neighbors.
 - Ask me a quick question.
 - Enjoy the fantastic music.



Hyperfine Splitting.



Hyperfine Splitting.



ENOUGH FOR TODAY?