
Quantum Mechanics

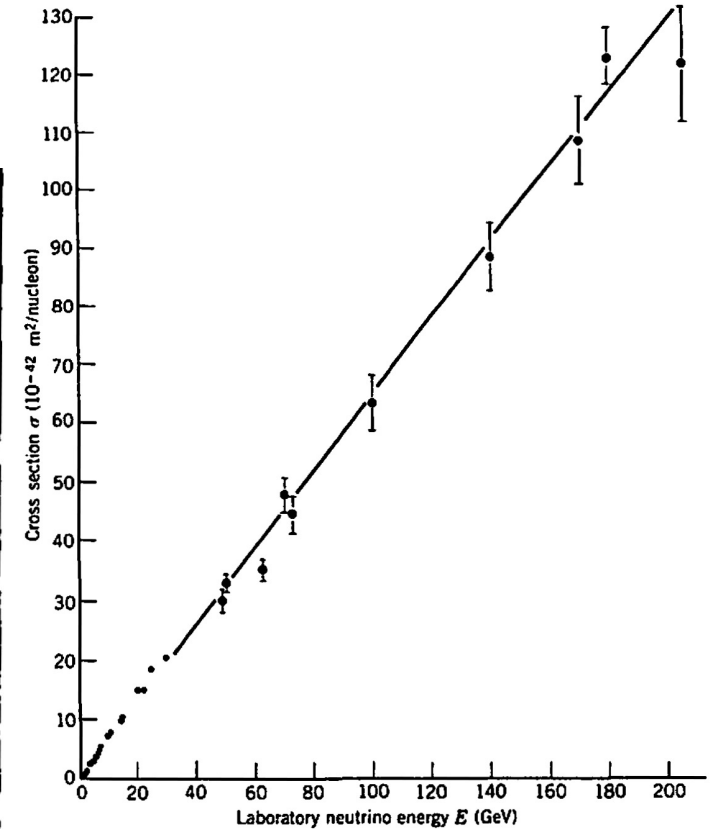
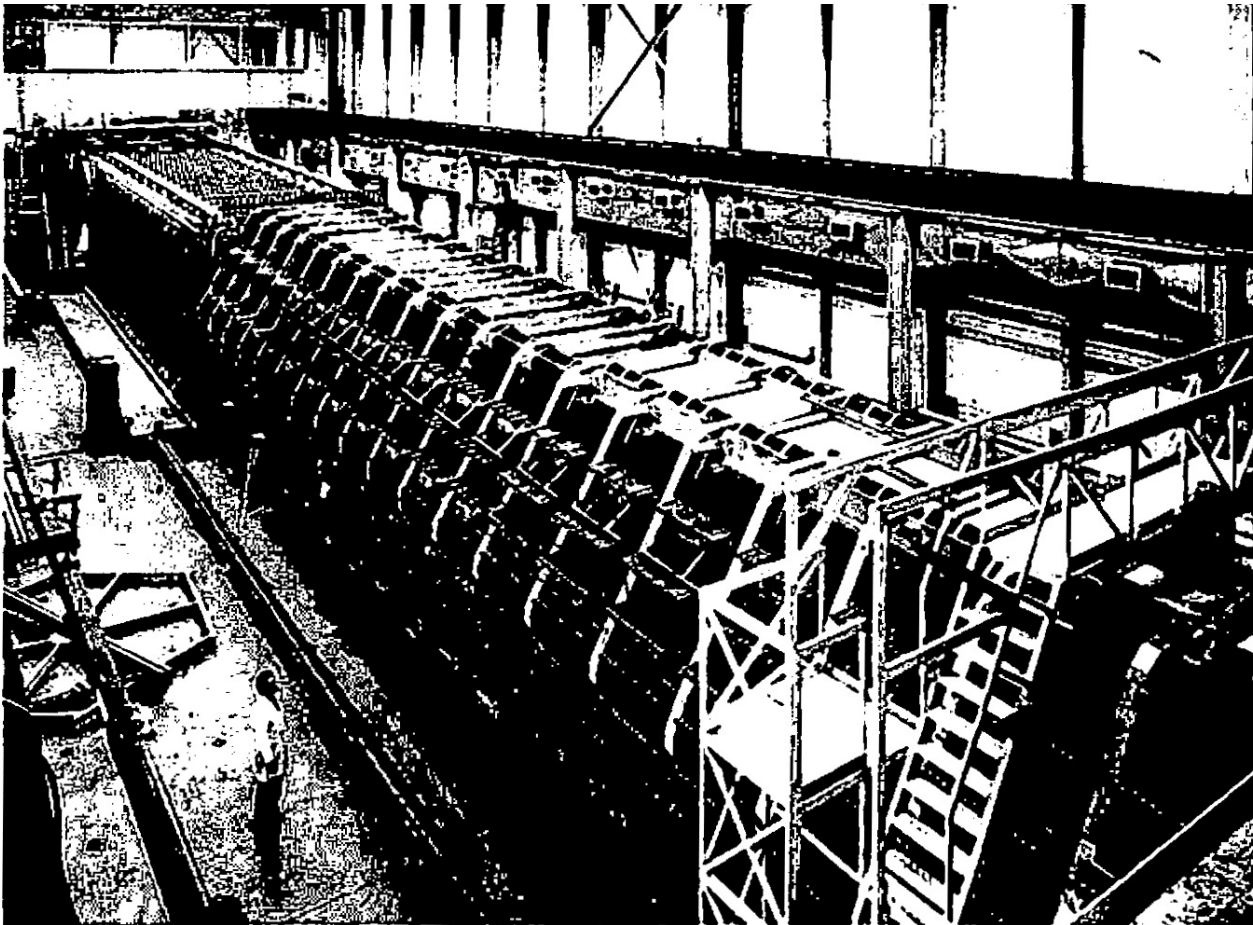
Physics 237

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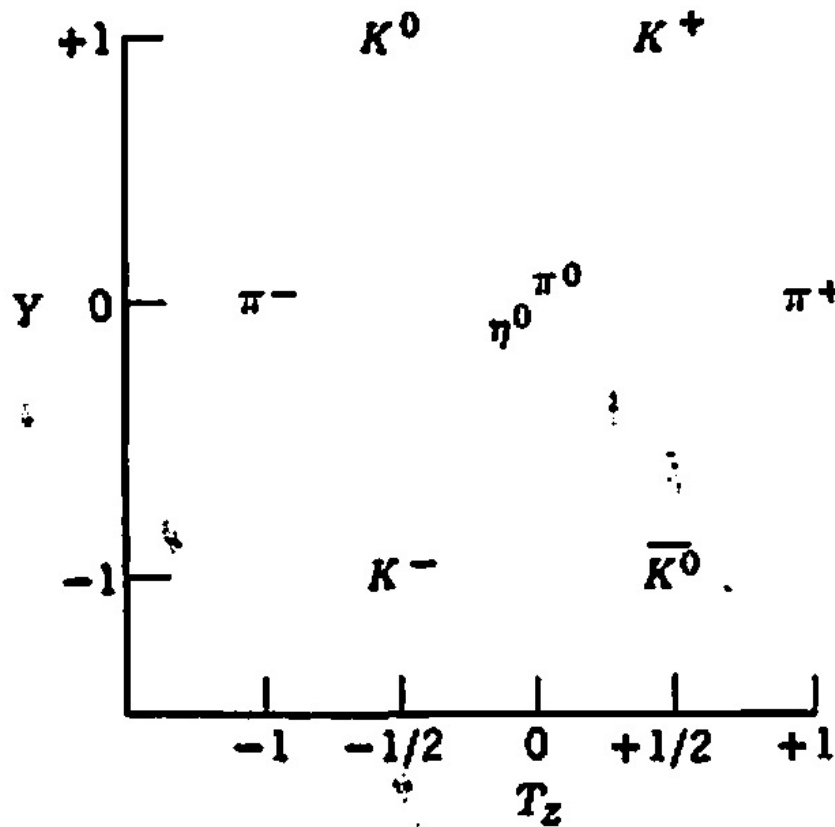
Course Information

- Today I will complete the discussion of Chapter 18. We will only cover the material of Sections 18.1 – 18.5.
- Exam # 3 will be returned during recitations next week on Monday and Wednesday next week.
- The solutions are posted on our webpages.
- Requests for regrades must be received by Thursday April 28.
- The final exam will cover all the material discussed in this course: chapters 1–11 and chapters 17-18. Note: for chapters 17-18, I only will ask questions based on the material in my notes.
- There will be extra office hours during the week of the exam.
- The final exam will take place on Wednesday May 4 (7.15 pm - 10.15 pm).

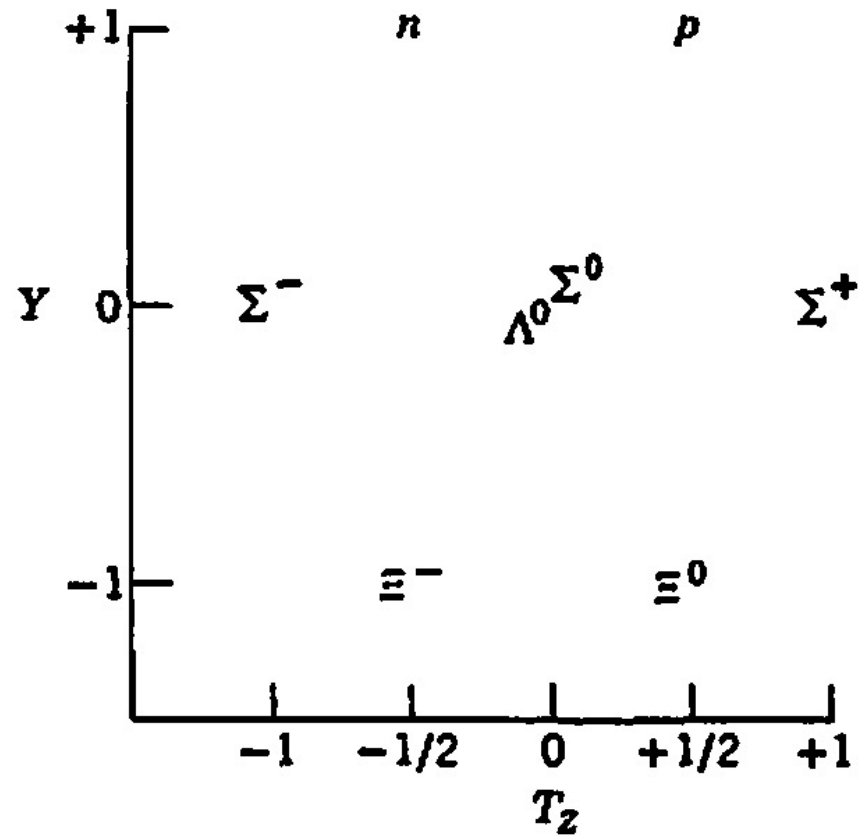
Neutrino-nucleon scattering. Provides evidence for partons.



Bringing order in the particle zoo. SU(3).

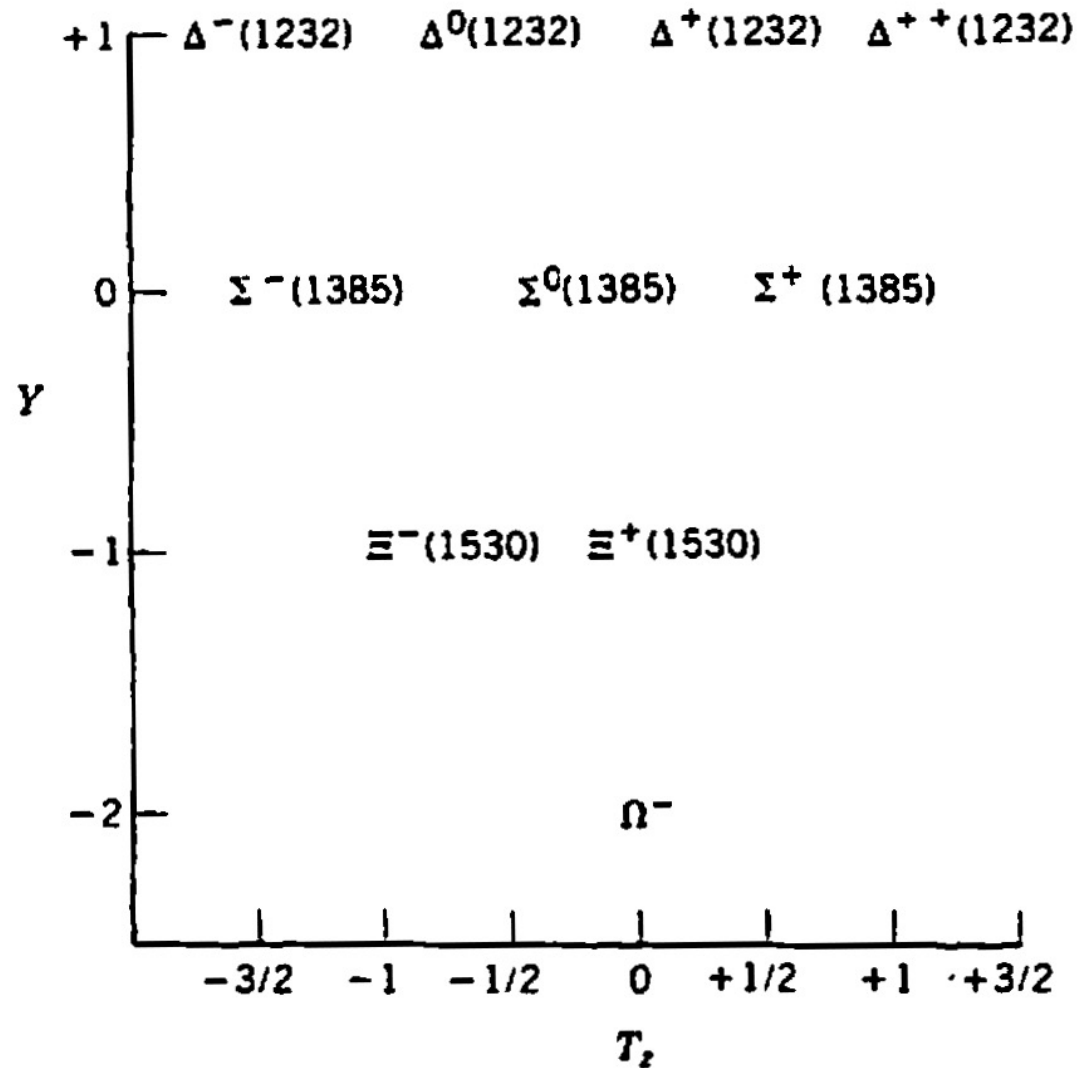


Odd parity, Spin 0



Even parity, Spin 1/2

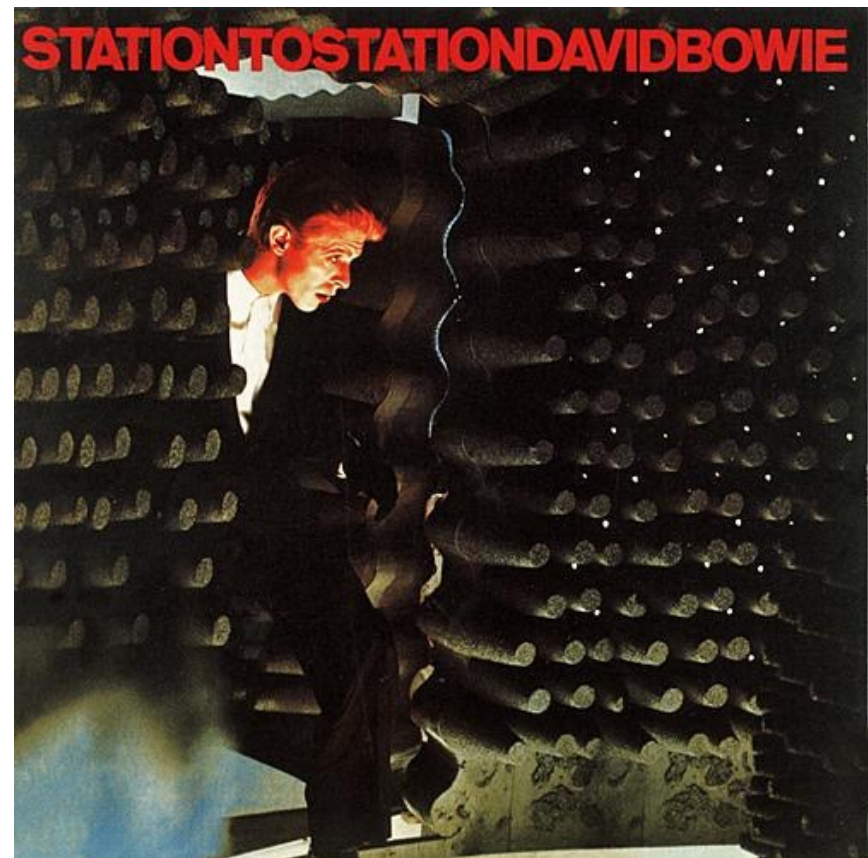
Quark Masses.



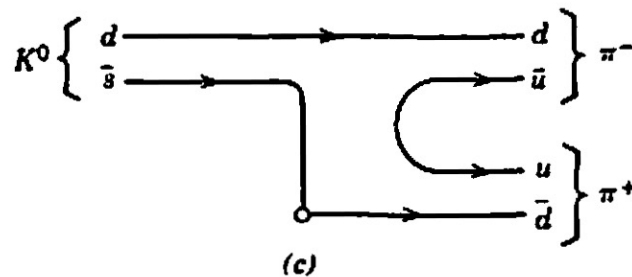
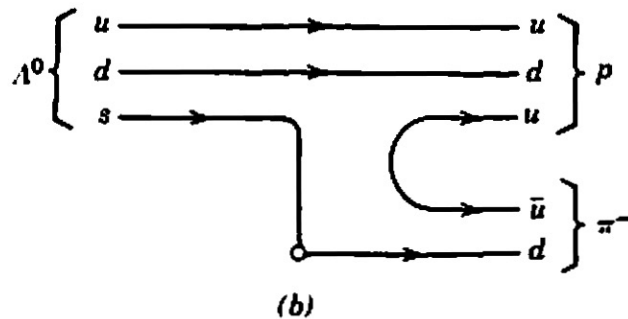
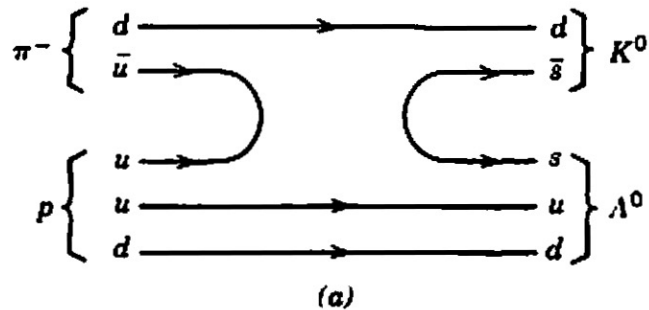


6 Minute 03 Second Intermission.

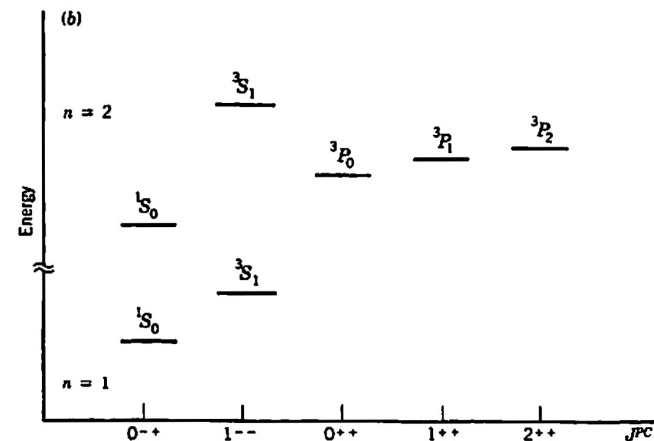
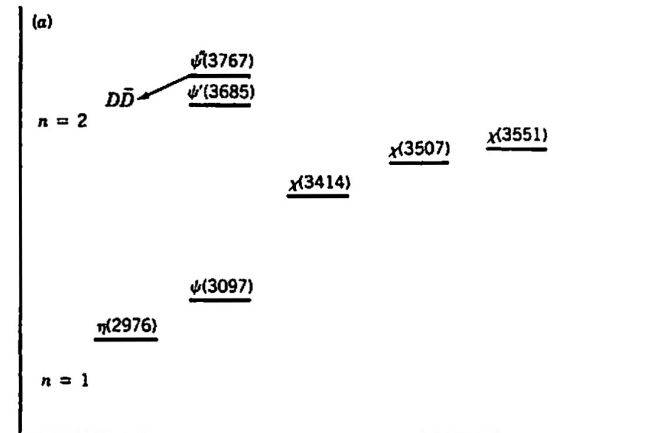
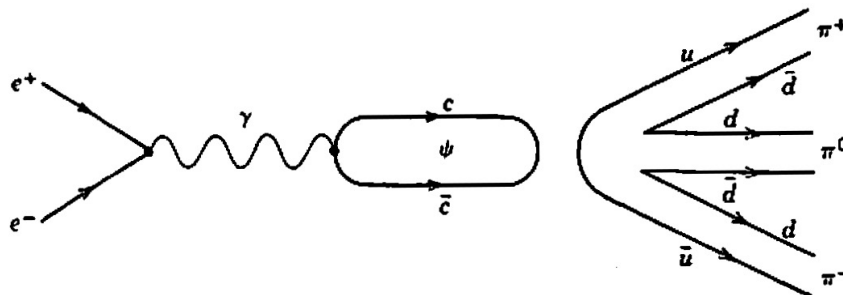
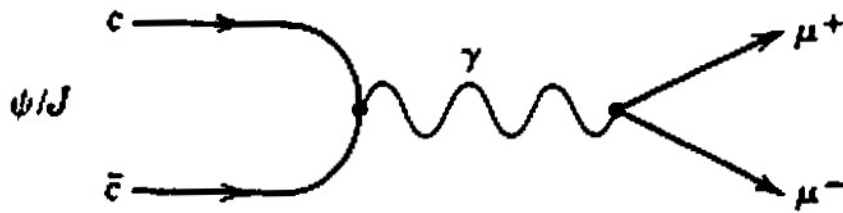
- Since paying attention for 1 hour and 15 minutes is hard when the topic is physics, let's take a 6 minute 03 second intermission.
- You can:
 - Stretch out.
 - Talk to your neighbors.
 - Ask me a quick question.
 - Enjoy the fantastic music.



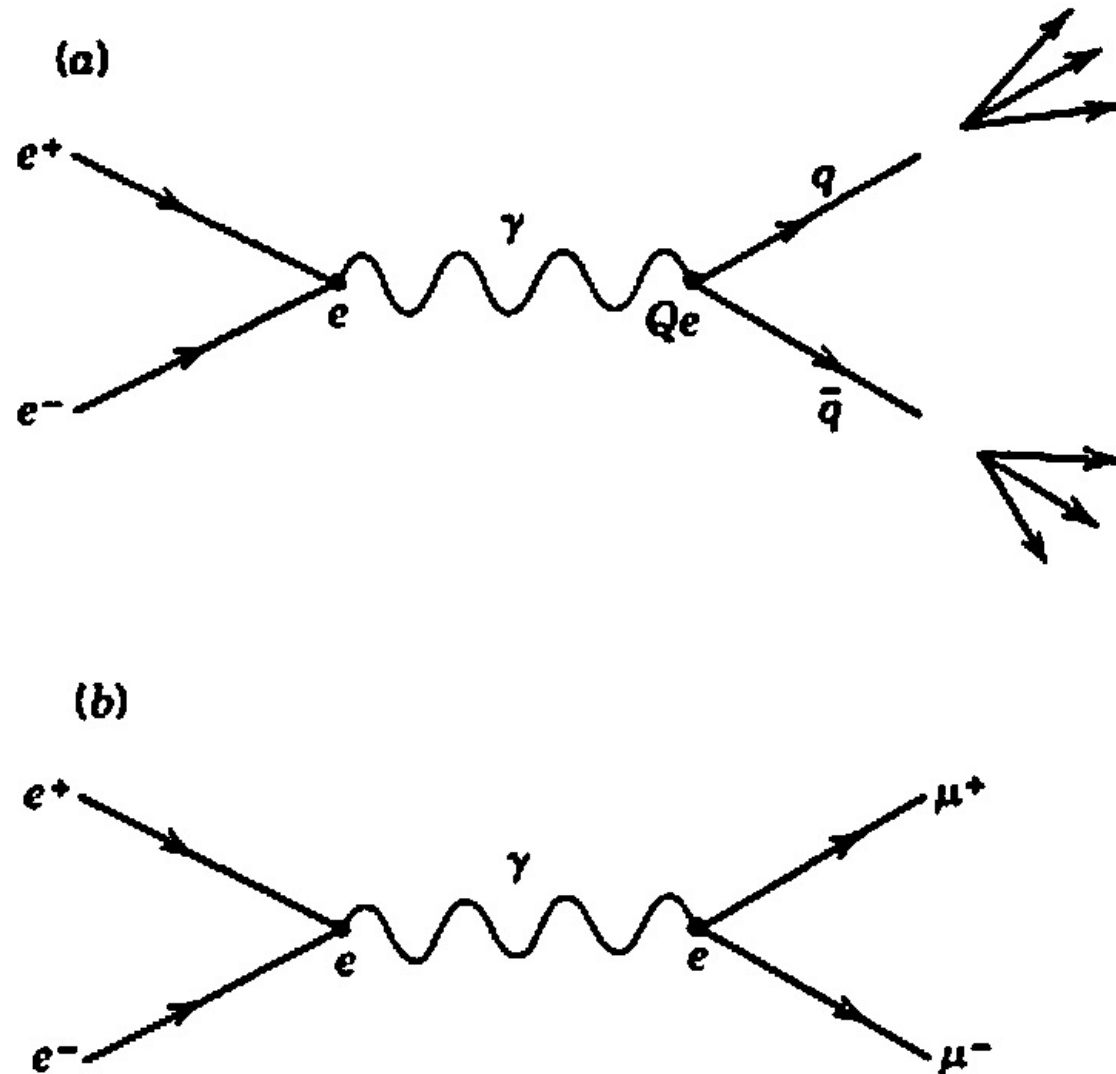
$\pi + p$ interactions: the quark point of view.



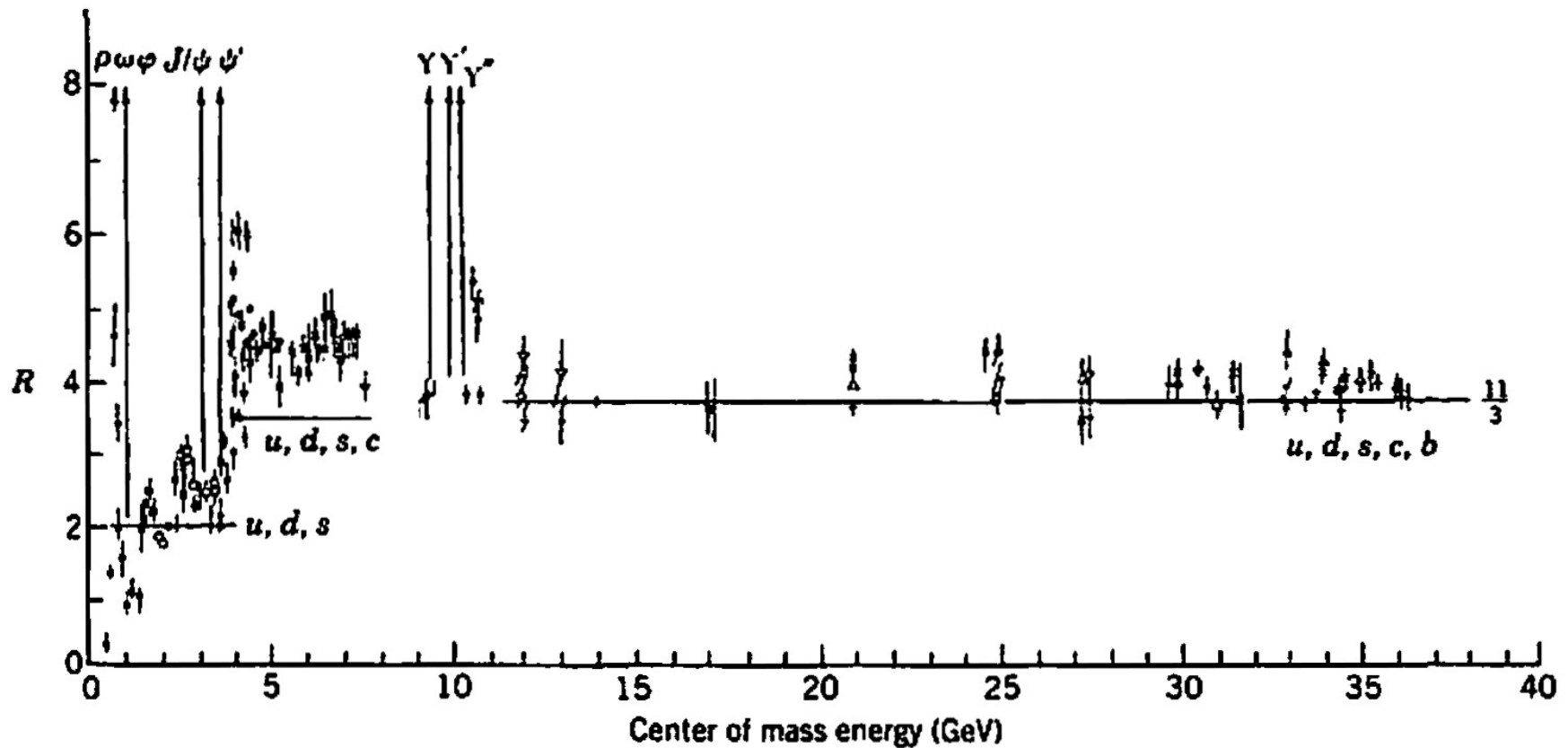
Charmonium and positronium.



Electron-Positron Interactions.



Ratio of Hadron to Muon Production.



ENOUGH FOR TODAY?