

## Homework Set 2, due Feb. 2, 2020

88.3. The  $H^+$  particle is an unstable baryon, composed of  $u$ ,  $d$  and a quark, but you don't need to know that to solve this problem. The  $H^+$  used to form  $H$  has spin  $1/2$  and is electrically neutral. Consider decay of the  $H^+$  particle into a proton and a pion  $\pi^+$  (a spin-0 particle with charge  $+e$ ).

- Find the direction of spin quantization of the  $H^+$  for  $z$ -direction (i.e. it can be along  $\hat{z}$ , or  $-\hat{z}$ ). Using conservation of angular momentum, draw the first possible final states for decay to the  $+\hat{z}$  or  $-\hat{z}$  directions. (i.e. proton going up along  $+\hat{z}$  with spin up, pion going down,  $1/2, -1$ .)
- Compute the probability for decay along a direction  $\hat{n}$  relative to the initial spin of the  $H^+$ . Express your answer (as the observed rate) dependent on  $\hat{n}$ . Does this violate parity conservation?

88.4 Chapter 5, Problems 5.1 to Solution 5, Neglectable. (Please refer to 88.3, etc.)

88.8 Chapter 5, Problems 5.8 to Solution 5, Neglectable. (2000 1.1)

88.9 Chapter 5, Problems 5.9 to Solution 5, Neglectable.

88.10 Chapter 5, Problems 5.10 to Solution 5, Neglectable.

88.14 Chapter 5, Problems 5.14 to Solution 5, Neglectable.

88.18 Chapter 5, Problems 5.18 to Solution 5, Neglectable. (2000 1.1)

88.20 Chapter 5, Problems 5.20 to Solution 5, Neglectable.

If you have time, take a look at 88.7 and 88.16, but you don't need to solve them in. If you want to see a more challenging problem, consider trying 88.6.

(Note: Q2012-2 in Solution Problem 5.8. I suggest to keep it as a bonus problem.)

1

15

H.2.1

 a)  $\Delta^+$  decays to  $\pi^+$  and  $p$ 


b)


 For  $\Delta$  spin up

$$\begin{aligned} \frac{1}{\sqrt{2}} |+\rangle &= \frac{1}{\sqrt{2}} \begin{pmatrix} u_1 u_2 d_1 \\ u_1 u_2 d_2 \end{pmatrix} \\ &= \frac{1}{\sqrt{2}} \begin{pmatrix} u_1 u_2 d_1 \\ u_1 u_2 d_2 \end{pmatrix} = |+\rangle \end{aligned}$$

 For  $\Delta$  spin down

$$\begin{aligned} \frac{1}{\sqrt{2}} |-\rangle &= \frac{1}{\sqrt{2}} \begin{pmatrix} u_1 u_2 d_1 \\ u_1 u_2 d_2 \end{pmatrix} \\ &= \frac{1}{\sqrt{2}} \begin{pmatrix} u_1 u_2 d_1 \\ u_1 u_2 d_2 \end{pmatrix} \end{aligned}$$

16

# Sakurai Solutions Chapter 6

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Kataoka**

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## **Table of Contents Sakurai Solutions Chapter 6**

1. Understanding the eBook Sakurai Solutions Chapter 6
  - The Rise of Digital Reading Sakurai Solutions Chapter 6
  - Advantages of eBooks Over Traditional Books
2. Identifying Sakurai Solutions Chapter 6
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Sakurai Solutions Chapter 6
  - User-Friendly Interface
4. Exploring eBook Recommendations from Sakurai Solutions Chapter 6
  - Personalized Recommendations
  - Sakurai Solutions Chapter 6 User Reviews and Ratings
  - Sakurai Solutions Chapter 6 and Bestseller Lists
5. Accessing Sakurai Solutions Chapter 6 Free and Paid eBooks
  - Sakurai Solutions Chapter 6 Public Domain eBooks
  - Sakurai Solutions Chapter 6 eBook Subscription Services
  - Sakurai Solutions Chapter 6 Budget-Friendly Options

6. Navigating Sakurai Solutions Chapter 6 eBook Formats
  - ePub, PDF, MOBI, and More
  - Sakurai Solutions Chapter 6 Compatibility with Devices
  - Sakurai Solutions Chapter 6 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Sakurai Solutions Chapter 6
  - Highlighting and Note-Taking Sakurai Solutions Chapter 6
  - Interactive Elements Sakurai Solutions Chapter 6
8. Staying Engaged with Sakurai Solutions Chapter 6
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Sakurai Solutions Chapter 6
9. Balancing eBooks and Physical Books Sakurai Solutions Chapter 6
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Sakurai Solutions Chapter 6
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Sakurai Solutions Chapter 6
  - Setting Reading Goals Sakurai Solutions Chapter 6
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Sakurai Solutions Chapter 6
  - Fact-Checking eBook Content of Sakurai Solutions Chapter 6
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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