

Homework Set 2, due Feb. 5, 2020

HW.1. 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 have a lifetime 10^{-12} and is electrically neutral. Consider decay of the H^+ particle into a proton and a pion π^+ (a spin-0 particle with charge $+\pi$).

- Find the direction of spin components of the H^+ for z -direction (i.e. it can be along $\pm z$ or $-\pm z$). Using conservation of angular momentum, draw the first possible final states for decay to the $+\pi$ or $-\pi$ directions. (i.e. proton going up along $+\pi$ with spin up, pion going down, $\pm, \pm$).
- Compute the probability for decay along a direction θ relative to the initial spin of the H^+ . Express your answer (as the dependent on θ). Show that yields pretty reasonable?

HW.1 Chapter 5, Problems 5.1 to Solution 5, Neglecting. (Please refer to HW.1, see.)

HW.2 Chapter 5, Problems 5.2 to Solution 5, Neglecting. (2000 1.1)

HW.3 Chapter 5, Problems 5.3 to Solution 5, Neglecting.

HW.4 Chapter 5, Problems 5.4 to Solution 5, Neglecting.

HW.5 Chapter 5, Problems 5.5 to Solution 5, Neglecting. (2000 1.1)

HW.6 Chapter 5, Problems 5.6 to Solution 5, Neglecting.

HW.7 Chapter 5, Problems 5.7 to Solution 5, Neglecting.

If you have time, take a look at HW.8 and HW.9, but you don't need to solve them in. If you want to see a more challenging problem, consider trying HW.10.

(Note: Q2000-1 to Solution Problem 5.1, I suggest to keep it as a bonus problem.)

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H.2.1

 a) Δ^+ decays to π^+ and p


b)


 For Δ^+ spin up

$$\begin{aligned} \frac{1}{\sqrt{2}} |+\rangle &= \frac{1}{\sqrt{2}} \begin{pmatrix} u_1 u_2 \bar{d}_1 \\ u_1 \bar{d}_2 u_1 \end{pmatrix} \\ &= \frac{1}{\sqrt{2}} \begin{pmatrix} u_1 u_2 \bar{d}_1 \\ u_1 \bar{d}_2 u_1 \end{pmatrix} = |+\rangle \end{aligned}$$

 For Δ^+ spin down

$$\begin{aligned} \frac{1}{\sqrt{2}} |-\rangle &= \frac{1}{\sqrt{2}} \begin{pmatrix} u_1 u_2 \bar{d}_1 \\ u_1 \bar{d}_2 u_1 \end{pmatrix} \\ &= \frac{1}{\sqrt{2}} \begin{pmatrix} u_1 u_2 \bar{d}_1 \\ u_1 \bar{d}_2 u_1 \end{pmatrix} \end{aligned}$$

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Sakurai Solutions Chapter 6

Y Pai



Sakurai Solutions Chapter 6:

This book delves into Sakurai Solutions Chapter 6. Sakurai Solutions Chapter 6 is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Sakurai Solutions Chapter 6, encompassing both the fundamentals and more intricate discussions.

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 - Chapter 4: Sakurai Solutions Chapter 6 in Specific Contexts
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