

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 π^+ . (a quark particle with charge $+2/3$).

(a) Find the direction of spin components of the H^+ for z -direction (i.e. it can be along $\pm z$ or $\pm x$ or $\pm y$ directions). Using conservation of angular momentum, draw the four possible final states for decay to the π^+ or π^- directions. (b) proton going up along $+z$ with spin up, pion going down, ± 1 .

(c) Compute the probability for decay along z -direction if relative to the initial spin of the H^+ . Experiment shows that the observed rate depends on θ . Show that yields pretty inconsistent?

88.4 Chapter 5, Problems 5.1 to Solution 5, Neglecting. (Please refer to 88.4, see.)

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

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

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

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

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

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

If you have time, take a look at 88.7 and 88.8, but you don't need to solve them in. If you want to see a more challenging problem, consider trying 88.6.

(Note: 88.10-2 to Solution Problem 5.10. 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

$$\begin{aligned} \frac{1}{\sqrt{2}} |+\rangle &= \frac{1}{\sqrt{2}} \begin{pmatrix} u\uparrow & u\downarrow \\ u\downarrow & u\uparrow \end{pmatrix} \begin{pmatrix} 1 \\ 0 \end{pmatrix} \\ &= \frac{1}{\sqrt{2}} \begin{pmatrix} u\uparrow & u\downarrow \\ u\downarrow & u\uparrow \end{pmatrix} = \frac{1}{\sqrt{2}} |+\rangle \end{aligned}$$

 For Δ spin down

$$\begin{aligned} \frac{1}{\sqrt{2}} |-\rangle &= \frac{1}{\sqrt{2}} \begin{pmatrix} u\uparrow & u\downarrow \\ u\downarrow & u\uparrow \end{pmatrix} \begin{pmatrix} 0 \\ 1 \end{pmatrix} \\ &= \frac{1}{\sqrt{2}} \begin{pmatrix} -u\uparrow \\ u\downarrow \end{pmatrix} \end{aligned}$$

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Sakurai Solutions Chapter 6

J Rink



Sakurai Solutions Chapter 6:

Sakurai Solutions Chapter 6 Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Sakurai Solutions Chapter 6**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

<https://crm.avenza.com/About/detail/Documents/newspaper%20articles%20for%20kids%20fact%20and%20opinion.pdf>

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