

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 it has spin $1/2$ and is electrically neutral. Consider decay of the H^+ particle into a proton and a pion π^+ (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 z , or $-z$.) Using conservation of angular momentum, show the first possible final states for decay to the $+\pi$ or $-\pi$ directions. (i.e. proton going up along z or with spin up, pion going down, $1/2, -1$.)
- Compute the probability for decay along a direction θ relative to the initial spin of the H^+ . Express your answer (as the observed rate) dependent on θ . Show that yields pretty reasonable?

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

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: 88.10-2 to Solution Problem 5.10. I suggest to keep it as a bonus problem.)

1

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H.2.1

 a) Δ^+ decays to π^+ and p


b)


 For Δ^+ spin up

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

 For Δ^+ spin down

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

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