

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 have a u quark, $1/2$ and is electrically neutral. Consider decay of the H^+ particle into a proton and a pion π^+ (a quark-antiquark pair with charge $+1$).

- 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, show the first quark that forms the pion is the u or \bar{u} direction. (i.e. quark going up along $+z$ with spin up, pion going down, $1, -1$).
- 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 88.16, 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.)

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H.2.1

 a) Δ^+ decays to π^+ and π^0


b)


 For Δ^+ spin up

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

 For Δ^+ spin down

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

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Sebastian Brünink



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