

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 u is said to have a baryon B of $1/3$ and is electrically neutral. Consider decay of the H^+ particle into a proton and a pion π^+ . (a quark is particle with charge $+\frac{2}{3}$.)

(a) Find the direction of spin components of the H^+ for z direction (i.e. it can be along z , or $-\frac{1}{2}$). Using conservation of angular momentum, draw the first possible final states for decay to the $+\frac{1}{2}$ or $-\frac{1}{2}$ directions. (b) proton going up along z with spin up, pion going down, $z = -1$.

(c) Compare the probability for decay along z direction if relative to the initial spin of the H^+ . Experiment shows that the observed rate depends on B . Does this indicate parity conservation?

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 very 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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