

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 u spin up, u, d and is electrically neutral. Consider decay of the H^+ particle into a proton and a pion π^+ . (a quark particle with charge $+\frac{2}{3}$).

(a) Find the direction of spin components of the H^+ the π direction (i.e. it can be along $\hat{x}$, or $-\hat{x}$, $\hat{y}$ or $-\hat{y}$ direction). Using conservation of angular momentum, show the first quark that forms the pion is the u or $\bar{u}$ direction. (b) proton going up along $+\hat{x}$ with spin up, pion going down, $\hat{x}, -\hat{x}$.

(c) Compute the probability the decay along a direction $\hat{n}$ relative to the initial spin of the H^+ . Express your answer in terms of $\cos \theta$ where θ is the angle between $\hat{n}$ and $\hat{x}$. Show that you can't find a direction $\hat{n}$ such that the decay is 100% along $\hat{n}$.

HW.2 Chapter 5, Problems 5.1 to Solution 5, Neglecting. (Please refer to HW.1, see.)

HW.3 Chapter 5, Problems 5.2 to Solution 5, Neglecting. (2000 1.1)

HW.4 Chapter 5, Problems 5.3 to Solution 5, Neglecting.

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

HW.6 Chapter 5, Problems 5.5 to Solution 5, Neglecting.

HW.7 Chapter 5, Problems 5.6 to Solution 5, Neglecting. (2000 1.1)

HW.8 Chapter 5, Problems 5.7 to Solution 5, Neglecting.

If you have time, take a look at HW.9 and HW.10, but you don't need to solve them in. If you want to see a more challenging problem, consider trying HW.11.

(Note: Q2001-2 in Solution Problem 5.8. I suggest to keep it as a bonus problem.)

1

1

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

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

2

Sakurai Solutions Chapter

Anthony S. Fauci



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