

Homework Set 2, due Feb. 2, 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 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 particle with charge $+2/3$).

- Find the direction of spin components of the H^+ for z direction (i.e. it can be along $\pm z$ or $\pm x$ or $\pm y$ direction). 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 gives going down, \downarrow, \downarrow).
- 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 B . Show this yields pretty inconsistent?

HW.1 Chapter 5, Problems 5.1 to Solution 5, Neglecting. (Please refer these HW.1, etc.)

HW.2 Chapter 5, Problems 5.2 to Solution 5, Neglecting. (2000 1.1)

HW.3 Chapter 5, Problems 5.3 to Solution 5, Neglecting.

HW.4 Chapter 5, Problems 5.4 to Solution 5, Neglecting.

HW.5 Chapter 5, Problems 5.5 to Solution 5, Neglecting. (2000 1.1)

HW.6 Chapter 5, Problems 5.6 to Solution 5, Neglecting.

HW.7 Chapter 5, Problems 5.7 to Solution 5, Neglecting.

If you have time, take a look at HW.8 and HW.9, but you don't need to solve them in. If you want to see a more challenging problem, consider trying HW.10.

(Note: Q2000-1 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

$$\begin{aligned} \frac{1}{\sqrt{6}} |+\rangle &= \frac{1}{\sqrt{6}} \begin{pmatrix} uu\bar{u} & -uu\bar{u} \\ uu\bar{d} & uu\bar{d} \end{pmatrix} \begin{pmatrix} 1 \\ 0 \end{pmatrix} \\ &= \frac{1}{\sqrt{6}} \begin{pmatrix} uu\bar{u} \\ uu\bar{d} \end{pmatrix} = \frac{1}{\sqrt{6}} |+\rangle \end{aligned}$$

 For Δ^+ spin down

$$\begin{aligned} \frac{1}{\sqrt{6}} |-\rangle &= \frac{1}{\sqrt{6}} \begin{pmatrix} uu\bar{u} & -uu\bar{u} \\ uu\bar{d} & uu\bar{d} \end{pmatrix} \begin{pmatrix} 0 \\ 1 \end{pmatrix} \\ &= \frac{1}{\sqrt{6}} \begin{pmatrix} -uu\bar{u} \\ uu\bar{d} \end{pmatrix} \end{aligned}$$

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Sakurai Solutions Chapter

ML Morrison



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