## Answer on Question #75374 - Chemistry - Physical Chemistry

## Question:

Using the properties: Charge (Q), Lepton number (L), Baryon number (B) show that whether the following processes are allowed or not?

i) 
$$0 K + p \rightarrow \Omega + K + K$$

--+

ii) 
$$\pi + p \rightarrow p + p + n$$

## **Solution:**

$$\pi^- + p \Rightarrow \Lambda^0 + K^0$$
 or

$$\pi^0 + p \Rightarrow \Lambda^0 + K^+$$
;

$$\Lambda^0 \Rightarrow p + \pi^-$$

$$K^+ \Rightarrow \pi^+ + \pi^0$$

Answer provided by AssignmentExpert.com