# Topic 7: Atomic, nuclear and particle physics

## 7.1 – Discrete energy and radioactivity

### Alpha particles, beta particles and gamma rays

 In contrast to the alpha particle, it was discovered that beta particles could have a large variety of kinetic energies.



- •In order to conserve energy it was postulated that another particle called a **neutrino** v was created to carry the additional  $E_{\kappa}$  needed to balance the energy.
- Beta (+) decay produces neutrinos v, while beta (-) decay produces anti-neutrinos v̄.

### **Atomic Physics 7ed**

**JR Anderson** 



#### Atomic Physics 7ed Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the ability of words has be much more evident than ever. They have the ability to inspire, provoke, and ignite change. Such is the essence of the book **Atomic Physics 7ed**, a literary masterpiece that delves deep to the significance of words and their effect on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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