

# Neutrinos and Gamma rays

## [OR: Gamma rays and Neutrinos]

Yibing Qiu  
[yibing.qiu@hotmail.com](mailto:yibing.qiu@hotmail.com)

**Abstract:** Showing the relationship between Neutrinos and Gamma rays

### Main Viewpoint & Result:

We know an atomic nucleus [ $Z \geq 2$ ] be formed by some Protons combining together with some  $\pi$ -Mesons[1], and a  $\pi$ -Meson be built up by an Electron and a Neutrino [2], and there be

$$\text{A } \pi\text{-Meson } (\pi) = \text{an Electron (E) + a Neutrino (Ne)} \quad \text{and}$$

$$\text{A Neutron (N) = a Proton (P) + an Electron (E) + a Neutrino (Ne)}$$

In a radioactive decay of an atomic nucleus, we know, which includes the emission of Alpha particles, Beta particles, and Gamma rays, and there be exist

$$\boldsymbol{\alpha} = 2P+2N = 2P+2P+2\pi = 4P+2E+2Ne \quad \text{and}$$

$$\boldsymbol{\beta} = E$$

Then, what is the resource of Gamma rays? There is no doubt, I think we can safely say that the Neutrino beam is Gamma rays; or says Gamma ray is the Neutrino beam! That is too saying

$$\boldsymbol{\gamma} = Ne$$

Moreover, there be

$$\text{Neutrons} \rightarrow \text{Protons} + \text{Electrons} + \text{Neutrinos (Antineutrinos)} \rightarrow \text{Protons} + \boldsymbol{\beta} + \boldsymbol{\gamma}$$

### References

[1] < $\pi$ -Meson and the Structure of a Nucleus> <http://vixra.org/abs/1405.0228>

[2] <A New Model of a Neutron Based on  $\pi$ -Meson><http://vixra.org/abs/1405.0206>