

(10.8) How can the neutrino be detected?

Several possibilities, e.g.:

1. Reaction with ^1H to produce a fast neutron and a positron. Then detection of annihilation γ and neutron.
2. $^{37}\text{Cl} + \nu = ^{37}\text{Ar} + e^-$ followed by collection of Ar and detection of its decay.
3. $^{71}\text{Ga} + \nu = ^{71}\text{Ge} + e^-$, conversion to GeH_4 , collection and detection of its decay.