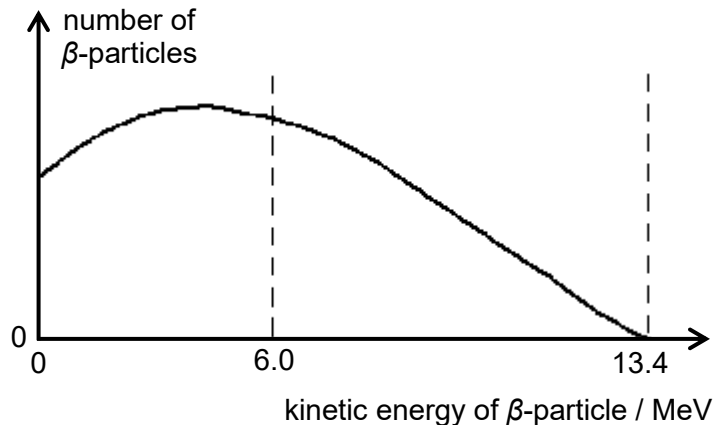


29 The beta spectrum for ^{12}B decay is as shown below.



The kinetic energy of an emitted β -particle is 6.0 MeV. What is the approximate energy of the associated neutrino?

A 4.0 MeV

B 6.0 MeV

C 7.4 MeV

D 13.4 MeV

30 A radioactive source in the laboratory has a half life of 10 days. The count rate was measured