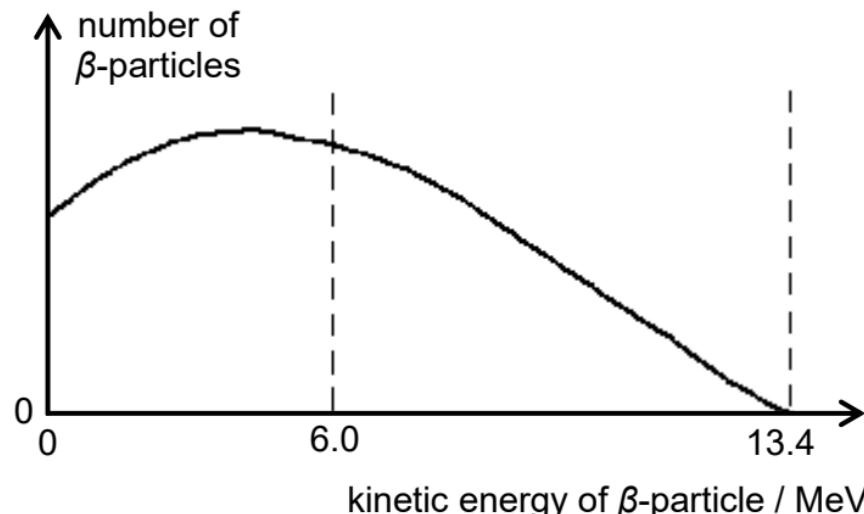


29 The beta spectrum for ^{12}B decay is as shown below.



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