29 When an isotope of boron, ${}^{10}_{5}B$ captures a slow neutron, it splits into lithium ${}^{7}_{3}Li$ and an alpha particle. An emission of γ-ray occurs during this reaction.

The nuclear binding energies of the reactants and products are

$${}^{10}_{5}B$$: 64.94 MeV
$${}^{7}_{3}Li$$: 39.25 MeV
$${}^{4}_{2}He$$: 28.48 MeV

If the total kinetic energies of the products produced is 2.31 MeV, what is the energy of the γ-ray emitted?

A 0.48 MeV

B 2.79 MeV

C 10.77 MeV

D 25.69 MeV