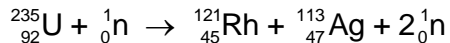


29 Consider the following nuclear reaction:



Data:

binding energy per nucleon of ${}_{92}^{235}\text{U} = 7.59 \text{ MeV}$

binding energy per nucleon of ${}_{45}^{121}\text{Rh} = 8.26 \text{ MeV}$

binding energy per nucleon of ${}_{47}^{113}\text{Ag} = 8.52 \text{ MeV}$

What is the energy change in this reaction?

- A** 73.9 MeV of energy is released.
- B** 73.9 MeV of energy is absorbed.
- C** 179 MeV of energy is released.
- D** 179 MeV of energy is absorbed.

[Turn over