

**29** Consider the following nuclear reaction:



Data:

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

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

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

What is the energy change in this reaction?

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