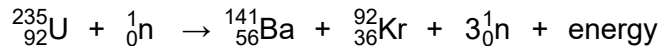


- 29** The nuclear fission reaction of Uranium-235 may be represented by the following equation



The rest masses of the nuclei are

nuclide	rest mass
${}_{92}^{235}\text{U}$	$235.04393 \, u$
${}_{56}^{141}\text{Ba}$	$140.91440 \, u$
${}_{36}^{92}\text{Kr}$	$91.92617 \, u$
${}_0^1\text{n}$	$1.00866 \, u$

What is the energy released when one nuclide of  ${}_{92}^{235}\text{U}$  undergoes fission?

**A**  $3.09 \times 10^{-28} \, \text{J}$

**C**  $2.78 \times 10^{-11} \, \text{J}$

**B**  $9.26 \times 10^{-20} \, \text{J}$

**D**  $3.29 \times 10^{-10} \, \text{J}$