The Q value of a nuclear reaction $A + b \rightarrow C + d$ is defined by $Q = [m_A + m_b - m_C - m_d]c^2$

where the masses refer to the respective nuclei. Determine from the given data the Q-value of the following reactions and state whether the reactions are exothermic or endothermic.

(i)
$${}^{1}_{1}H+{}^{3}_{1}H \rightarrow {}^{2}_{1}H+{}^{2}_{1}H$$

(ii)
$${}^{12}_{6}C + {}^{12}_{6}C \rightarrow {}^{20}_{10}Ne + {}^{4}_{2}He$$

Atomic masses are given to be

$$m\binom{2}{1}H$$
 = 2.014102 u

$$m(^{3}_{1}H) = 3.016049 u$$

$$m\binom{12}{6}C) = 12.0000000 u$$

$$m(^{20}_{10}\text{Ne}) = 19.992439 \text{ u}$$

Suppose, we think of fission of a $_{26}^{56}$ Fe nucleus into two equal fragments, $_{13}^{28}$ Al. Is the fission energetically possible? Argue by working out Q of the process. Given $m (_{26}^{56}$ Fe) = 55.93494 u and $m (_{13}^{28}$ Al) = 27.98191.11

The fission properties of 239 Pu are very similar to those of 235 U. The average energy released per fission is 180 MeV. How much energy

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