



A Level • OCR • Physics

 2 mins 2 questions

Multiple Choice Questions

# Nuclear Fission & Fusion

Energy & Mass Equation / Particle-Antiparticle Pairs / Mass Defect & Binding Energy / Calculating Binding Energy / Nuclear Fission / Nuclear Fission Reactor & Waste / Nuclear Fusion / Balancing Nuclear Equations

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Total Marks

/2

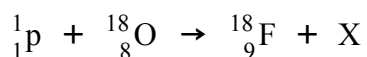
- 1 The total energy released in a single fusion reaction is 4.0 MeV.

What is the change in mass in this fusion reaction?

- A.  $7.1 \times 10^{-36}$  kg
- B.  $7.1 \times 10^{-30}$  kg
- C.  $2.1 \times 10^{-21}$  kg
- D.  $4.4 \times 10^{-17}$  kg

(1 mark)

- 2 A proton collides with a stationary oxygen-18 nucleus. The collision produces a fluorine-18 nucleus and particle X.



What is particle X?

- A. neutron
- B. proton
- C. electron
- D. positron

(1 mark)