

Concept questions

Discussion Week 3

During the induced fission of ^{235}U , approximately what percent of the total energy released in the fission reaction (and subsequent processes) is carried away by antineutrinos?

a) 0%

c) 4%

b) 1%

d) 10%

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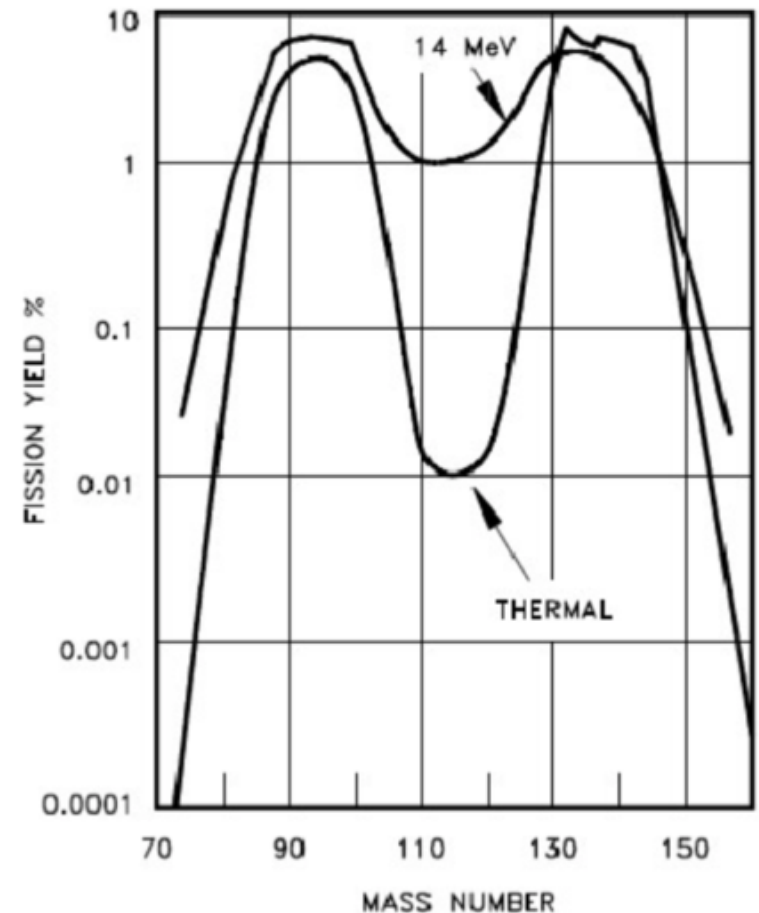
c) 4%

b) 1%

d) 10%

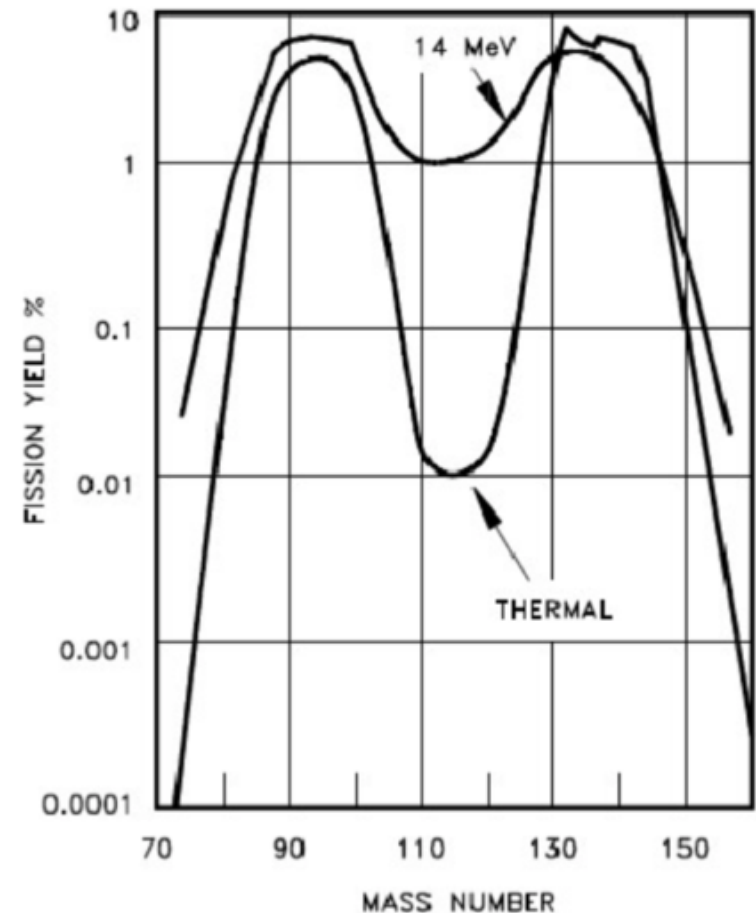
What model of nuclear physics predicts the presence of two peaks in this plot of fission products?

- a) Liquid drop model
- b) Rotational model
- c) Shell model



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Which isotope has the lowest binding energy per nucleon?

a) ${}^4\text{He}$

b) ${}^6\text{Li}$

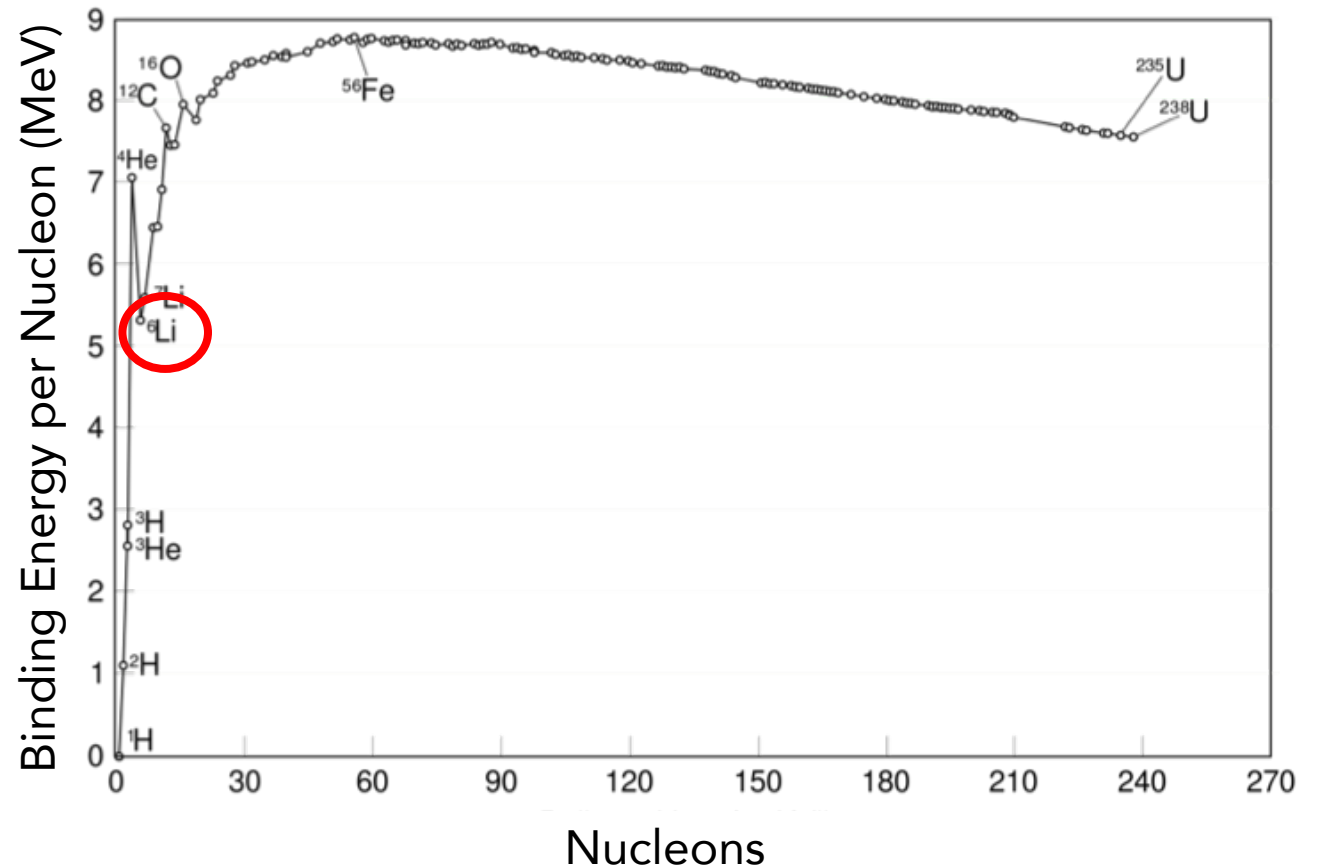
c) ${}^{235}\text{U}$

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c) ${}^{235}\text{U}$



Are you sick of Q-values yet?

- a) Mhmm...
- b) Yes. Yes, I am.
- c) Absolutely. 100%
- d) \$%&#%&*!#!
- e) What's a Q-value?