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## Introductory Nuclear Physics (3rd Edition)

#### Step-by-step solution

#### Step 1 of 5

White the semi-empirical mass formula:

$$B.K = \omega_r A - \omega_r A^{(r)} - \omega_r \frac{\pi(x-1)}{A^{(r)}} + \omega_{rm} \frac{(A-2\pi)^2}{A} \times \omega_{p} A^{-4\pi}$$

Here, gr.g' is the binding energy, 44, is volume term, 44, is surface term, 45,41 is asymmetry term, 4, is the coulomb term, 4, is parity term. 4 is mass number, and 2 is the atomic

The parity term is positive for even 2 and even 2, negative for odd 2, and odd 3, and zero for even 2 and odd 3 or odd 2 and even 3.

The values of the terms are as follows:

$$\omega_c = 15.55 \text{MeV}$$

$$\omega_{\rm min} = 23586 V$$

$$\omega_{ee} = 344 \, \text{MeV}^{\circ}$$

Write the coulomb energy term.

$$E_{i_1} = \omega_i \frac{x(x-1)^{i/4}}{x^{i/4}}$$

#### Comment

#### Step 2 of 5

The mass number for 11 No. is 21 and the atomic number is 10.

The binding energy of Pring is as follows:

$$BE = \omega_s A - \omega_s A^{(1)} - \omega_s \frac{x(x-1)}{A^{(1)}} + \omega_s \frac{(A-2x)^2}{A} \otimes \omega_{p} A^{(1)}$$

Substitute 21 for of and 56 for 2.

$$B.E = \begin{bmatrix} (15.5 \text{MeV})(21) - (16.8 \text{MeV})(21)^{13} - \\ (0.72 \text{MeV}) \frac{10(10-1)}{(21)^{13}} + (23 \text{MeV}) \frac{(21-2(10))^{1}}{(21)} \pm 0 \end{bmatrix}$$

-175.2 MeV

The coulomb energy of  $m_{N_0}$  is as follows:

$$E_{n}=-a_{n}\frac{x\left( x-1\right) }{x^{n/2}}$$

Substitute 21 for 2 and 10 for 2

$$E_c = -(0.72 \,\text{MeV}) \frac{10(10-1)}{(21)^{11}}$$

The coulomb energy of Pinc is -23.5 MeV

Comment

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Shasha Hu

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