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Answer: The minimum energy to remove a proton from the nucleus is equal to the energy difference. between the two states of the nucleus (before and after proton removal) $^{12}\text{C} \rightarrow ^1\text{H} + ^{11}\text{B}$. $\Delta m = m(^1\text{H}) + m(^{11}\text{B}) - m(^{12}\text{C})$ The electron masses cancel when neutral atom masses are used.

Nuclear Physics Problems and Solutions - Physics Tutorial Room

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Introduction to Nuclear Physics Physics 124 Solution Set 6

This problems and solutions manual is intended as a companion to an earlier textbook, Modern Atomic and Nuclear Physics (Revised Edition) (World Scientific, 2010). This manual presents solutions to many end-of-chapter problems in the textbook. These solutions are valuable to the instructors and students working in the modern atomic field.

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Problems and Solutions - UNAM

Think about the problems posed, your strategies, the meaning of your computations, and the answers you get. The main point is not to come up with specific answers to the specific problems you are working on, but to develop an understanding of what you are doing so that you can apply your reasoning to a wide range of similar situations.

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