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### Nuclear physics - Wikipedia

This article summarizes equations in the theory of nuclear physics and particle physics. Definitions. Quantity (common name/s) (Common) symbol/s Defining equation SI units Dimension Number of atoms  $N =$  Number of atoms remaining at time  $t$ .  $N_0 =$  Initial number of atoms at time  $t = 0$   $N D =$  Number ...

### List of equations in nuclear and particle physics - Wikipedia

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### 1.3. Basic Principles of Nuclear Physics

[ $^{14}\text{N}(n,p)$  C, the neutrons being produced by cosmic rays].  $^{14}\text{C}$  decays by  $\beta^-$ -emission with half life  $T_{1/2} = 5730$  y  $^{14}\text{C} \rightarrow ^{14}\text{N} + \beta^- + \nu$  The chemical activity of  $^{14}\text{C}$  is similar to that of  $^{12}\text{C}$ , so living organisms have the same  $^{14}\text{C}/^{12}\text{C}$  ratio as in the atmosphere, which is about  $1.35 \times 10^{-12}$ . When an organism dies it stops absorbing  $^{14}\text{C}$ , and the ratio

### Nuclear Physics

Reexamining the relation between the binding energy of finite nuclei and the equation of state of infinite nuclear matter M. C. Atkinson, W. H. Dickhoff, M. Piarulli, A. Rios, and R. B. Wiringa Phys. Rev. C 102, 044333 – Published 30 October 2020

### Phys. Rev. C 102, 044333 (2020) - Reexamining the relation ...

This work provides an in-depth review of the relevant nuclear physics input and connects these data to the fundamental couplings. J. C. Hardy and I. S. Towner Phys. Rev. C 102, 045501 (2020) MILESTONE Nuclear forces from chiral effective field theory.

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