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 $J = \text{Flux} \times \text{Area} = n v \times \text{Total Area Of Target Nuclei}$   
 $\text{Per Cm}^3 = n \int \sigma \int J$  Reaction Rate Per Cm<sup>3</sup> Assuming No Blocking  
 $= N_1 N_2 \int \sigma \int J = 1 \text{ Cm}^2$  The Reaction Rate For The Two Reactants, I And J  
As In E.g., I (j,k) L Is Then: N I N 2th, 2024

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The Binding Energy Per Nucleon Dictates Results When Nuclides Break Apart (fission) Or Fuse Together (fusion) (keep In Mind That ... (two Protons And Two Neutrons) ! " $= 2 \text{ } ^4\text{He} + 2 \dots$  Or An Anti-neutrino ( ) Neutrinos Have No Charge, Spin 1/2, And Mass  $\sim 0.1 - 1 \text{ EV}$  (?) The Beta Particle 2th, 2024

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32-2 Radioactivity Unstable Nuclei Can Either Decay Into A Stable Nucleus Of Different N And Z, Or Can Return To The Ground State From An Excited State. Three Different Types Of Decay Particles: 1. Alpha Particles, Which Consist Of Two Neutrons And Two Protons, And Are Nuclei Of 2. Electrons 3th, 2024

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Neutron Stars. Usually, The Method Used To Constrain  $L$  Is To Measure Nuclear Neutron Skins, Which Are The Differences Between The Radii Of The Neutron And Proton Distributions In Neutron-rich Nuclei (2, 5). This Method Is Based On The Density Decrease Of Atomic Nu-clei Near Their Surface; Neutrons Are Pushed Out To A Larger Radius Depending On ... 1th, 2024

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634 NUCLEAR PHYSICS AND MEDICAL APPLICATIONS A Particular Nuclear Species Is Called A Nuclide, And Is Represented By The Chemical Symbol Of Its Neutral Atom Together With Its Value Of A Written As A Pre- Superscript. For Example,  $^{13}\text{C}$  Represents The Nuclide With 6 Protons (because All Carbon Atoms Have Six Protons), And  $^{13}_{6}\text{N}$  Neutron 2th, 2024

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Scan That Detects A Cancer To The Radioiodine Treatment That Cures Another,  
Nuclear Radi 3th, 2024

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Basic Principles Of Nuclear Physics Nucleus Consists Of: Z Protons With  $E+$  Charge N Neutrons With No Charge. A Mass Number  $A=Z+N$  Protons & Neutrons Are Bound By Strong Force: R  $10^{-13}$  M. Nomenclature And Common Units Power Prefix Abbrev.  $10^{-15}$  Femto F  $10^{-12}$  Pico P  $10^{-9}$  Nano N  $10^{-6}$  Micro M  $10^{-3}$  Milli M  $10^{-2}$  Centi C  $10^{-1}$  Deci D  $10^3$  Kilo K 2th, 2024

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