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 $=nv$  Total Area Of Target Nuclei Per Cm<sup>3</sup> $=n \int \sigma \int J$  Reaction Rate Per Cm<sup>3</sup> Assuming  
No Blocking =  $Nv \int \sigma \int J = 1$  Cm<sup>2</sup> The Reaction Rate For The Two Reactants,  $I$  And  $J$   
As In E.g.,  $I(j,k) L$  Is Then:  $N \int N$  Feb 8th, 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)  ${}^4_2\text{He} + 2 \dots$  Or An Anti-neutrino (  $\bar{\nu}$  ) Neutrinos Have No Charge, Spin  $1/2$ , And Mass  $\sim 0.1 - 1$  EV (?) The Beta Particle Mar 4th, 2024

## **Chapter 32 Nuclear Physics And Nuclear Radiation**

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 Mar 8th, 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 ... Mar 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 Jan 4th, 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 103 Kilo K Feb 6th, 2024

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