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=nv Total Area Of Target Nuclei Per Cm<sup>3</sup>=n I σ I J Reaction Rate Per Cm<sup>3</sup> Assuming  
No Blocking = Nvn I σ J I = 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 I N Apr 19th, 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) ! " =  $2\ ^4\text{He} + 2\ \dots$  Or An Anti-neutrino ( ) Neutrinos Have No Charge, Spin  $1/2$ , And Mass  $\sim 0.1 - 1\ \text{eV}$  (?) The Beta Particle Feb 10th, 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

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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 May 12th, 2024

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