#### Nuclear Stability

We can canadonate a certain of conversion between position and aestinous is surface exactions:



The specificant wide, for example, some nuclei molecpo in sights decay and not a beta decay. This has to do with the neutron to produce ratte (argo in the nuclei. When the nuclei of all 3000 harves rattinger, are plotted based on their nucleis of proteins and neutron, a Breat (Bod) of statisticy is obtained (blue region). The nuclei, is this region are stable. The notages, that Edit nativity of this region (one of territologic) are submarked and drive prostourously. Example E1 is the last rivorcut in the band of brieflade, we all mades with E4 in native proteins are rather rivor. The type of authorativity depends on the mig.

- The sucies shore the boad of embiliar lead to decrease the are into:
- This mades below the board of codelley read to receive the n/o man.



Notice with the magic manifers of 3, 5, 30, 30, 50, or 12 propers of 3, 5, 30, 24, 50.

13. or 120 neutrons and in penetral, with even markers of propers neutrons are more stable.

#### Rates of Radioactive Decay

Radiocative decay obeys functiondes haveless from. And obtaining the haddelph of subcontinuous many ways remainstable (if we could be believe of years), it is undependent of the quantity of the ricercar. This advantage is used in audiocarbon desting which is used for estimating the ages of feesile and artifacts. The reducions is havel on the size of <sup>14</sup>C. Access which spreads from the amongsters to brong organisms.



The half-life of carbon-16 decay to accepte by estimate of a fit particle is \$118 years.

The <sup>14</sup>C : <sup>15</sup>C ratio is constant in living or passane. However, when a living organism does the <sup>16</sup>C : <sup>16</sup>C ratio begins to decrease, and so does the decry rate of <sup>15</sup>C. The adminiship of the quantity or rates of decry is given by the first order one lies:

$$\ln\left[\frac{N_s}{N_s}\right] = -3\pi \qquad \ln\frac{\sin k_0}{\sin k_0} = -3\pi$$

Example: A completed wood from an Egyptian minimp, their gives a count of 9.4 open pC (this is the current decay tree descrimed experimentally). How old is the wood of an initial decay rate in 15.3 counts C?

Education for our proof to one for an equated rate law of first-codes reschool. The poetant gives, so we send to determine the rate constant of the decay.

The half-life of first-codes reactions in the # 0.650 % Therefore, and A in:

$$k = \frac{\alpha_0 M_1}{c_0} + \frac{\alpha_0 M_2}{8118 \, y} = 1.200 \, \times 10^{-3} \, y^{-1}$$

$$\ln\left[\frac{9.4}{19.3}\right] \sim 1.209 \times 10^{-6}) \times r \implies r = \frac{\ln\left[\frac{9.4}{19.3}\right]}{\left[2.98 \times 10^{-6}\right]} = 4.629 \text{ power}$$

#### Energy Changes in Nuclear Reactions

The energies is consisted with uncless resolutes are extremely large. For example, the energy change in this countries  $-4.1 \times 10^{12}$  functions

For comparison, the energy change for conductions of Local CW, or 400 kJ and

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# **NARAYAN CHANGDER**

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