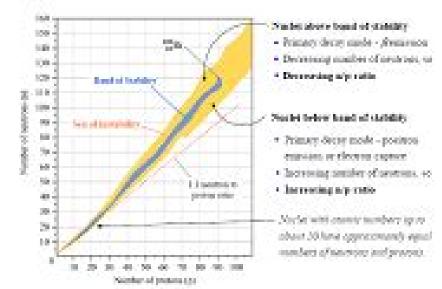
#### Nuclear Stability

We can concepture a pattern of conversion between postors and persons in markov sentions:



The specious a why. So example, some nuclei undergo as alpha decay and set a beta decay. This has to do with the mention to proton ratte garge in the saude. When the nuclei of all 1000 harves compare or plotted based on their number of protons and sections, a Bent (Bod) of sateletty is obtained (Mar region). The nuclei is this region are stable. The nuclei is this region are stable. The nuclei is the last consists of this region (see gifteredship) are satisfactory and drosp governments. Example 10 is the last riveness in the band of validate, we all mades with \$1 in some protons are validate to the type of authorationly depends on the sign.

- The uncles shore the boad of enbalativities to decrease the are into:
- The modes believe the bound of coalciles, read to receive the new coars.



Nuclei with the snagle wanters of 2, 5, 20, 25, 50, or 12 propers of 2, 5, 30, 24, 50.

12 or 120 propers and as property with every anothers of company persons are store 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 riceson. 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 minimity case gives a count of 9.4 open pC (this is the current decay total descriptional 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-order reactions in n = 0.090 it Therefore, and it is:

$$k = \frac{0.003}{k_{\rm c}} + \frac{0.003}{8718 \, \rm g} = 1.200 \times 10^{-3} \, \rm g^{-1}$$

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

#### Energy Changes in Nuclear Reactions

The energies is consisted with uniform resolution 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

# **Nuclear Chemistry Study Guide Answers**

**Albert A Gayle** 

**Nuclear Chemistry Study Guide Answers:** 

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