

Fig 1: Neutron separation energies around N=82 - 2012 J. Phys. G: Nucl. Part. Phys. 39

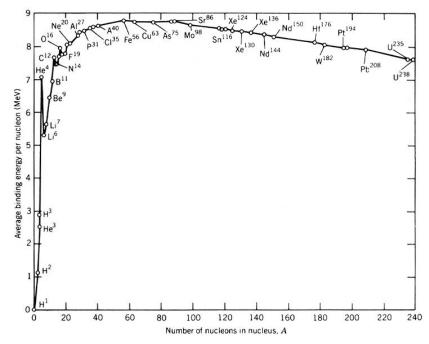


Fig 2: Binding energy per nucleon http://courses.engr.illinois.edu

## Energy of alpha-decay (82, 126)

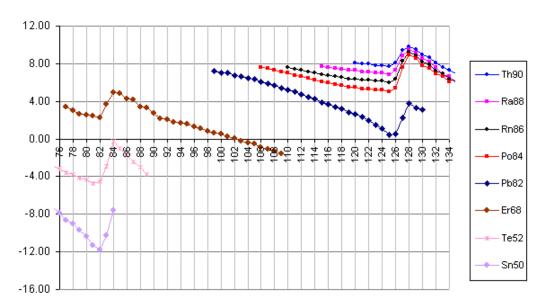


Fig 3:  $\alpha$  energy as a function of N: http://physics.stackexchange.com/

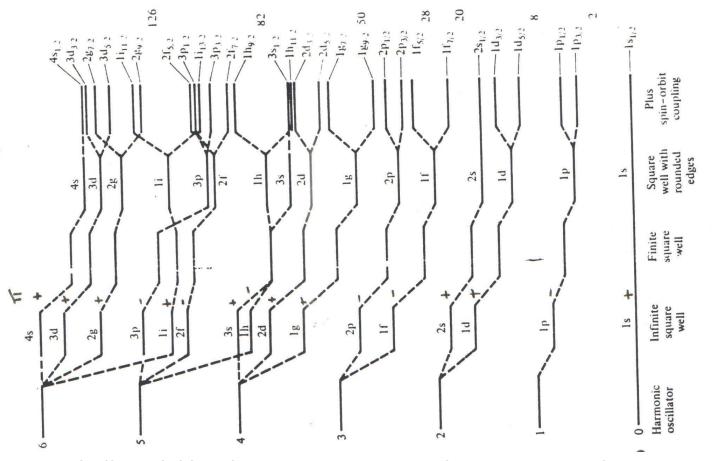


Fig 4 shell model levels - Primary source unknown – Secondary source Prof R Cashmore (Univ. of Oxford) Nuclear Physics Course 1994