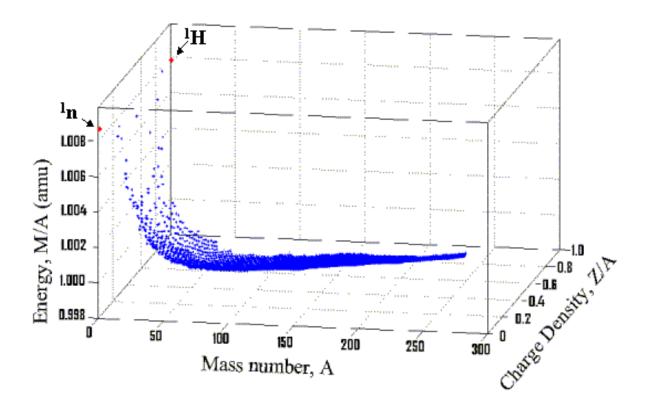
Cradle of the Nuclides



This is a 3-D plot of potential energy per nucleon, M/A, *versus* charge density, Z/A, *versus* atomic mass number, A, for all 2,850 currently known isotopes of the elements [*Nuclear Wallet Cards*, 6^{th} edition (Brookhaven National Laboratory, National Nuclear Data Center, Upton, NY, 2000) 74 pp.]. The vertical axis is identical to f + 1, where f = Aston's nuclear packing fraction = (M-A)/A. Systematic properties of these 2,850 nuclides offer an explanation for luminosity of the iron-rich Sun.

