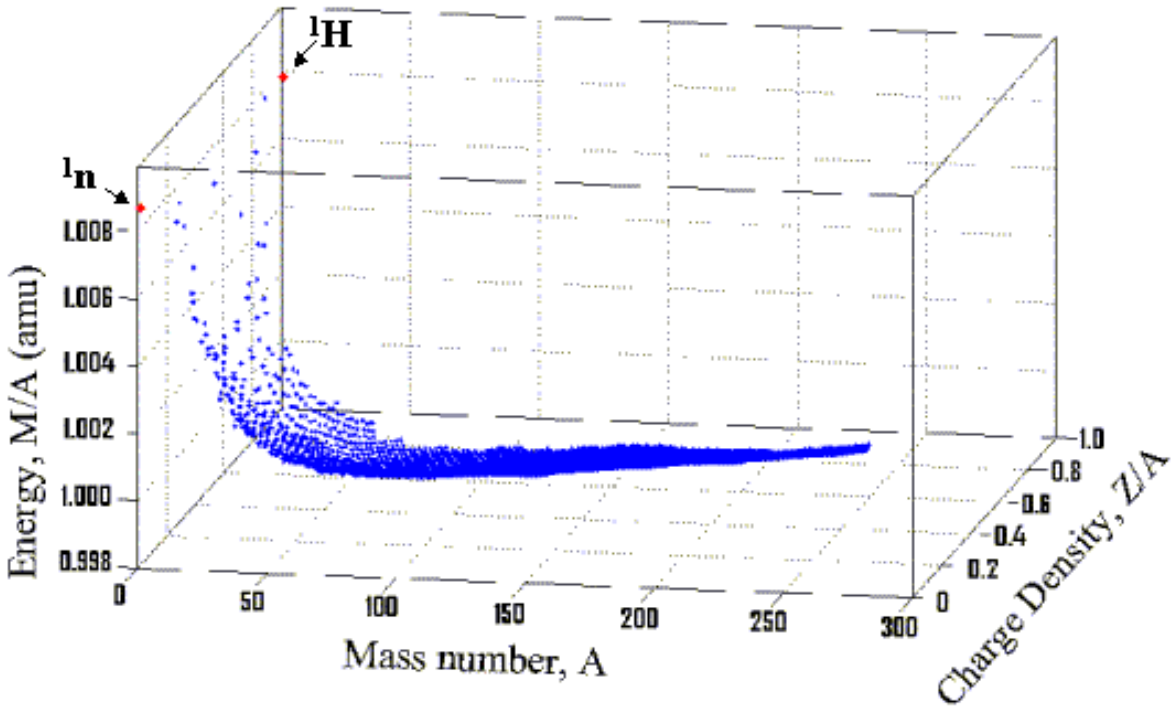
How Do Iron-Rich Stars Shine?

Aston's mass spectrometer [1] shows the nuclear properties that cause luminosity



The Cradle of the Nuclides*

At every mass number > 1, repulsive interactions between neutrons increases M/A to M/A = M ($^1_0$n) + 10-22 MeV at Z/A = 0

* Data points are from [17], Nuclear wallet cards, 6th edition (2000) National Nuclear Data Center, Brookhaven National Lab., 96 pp.