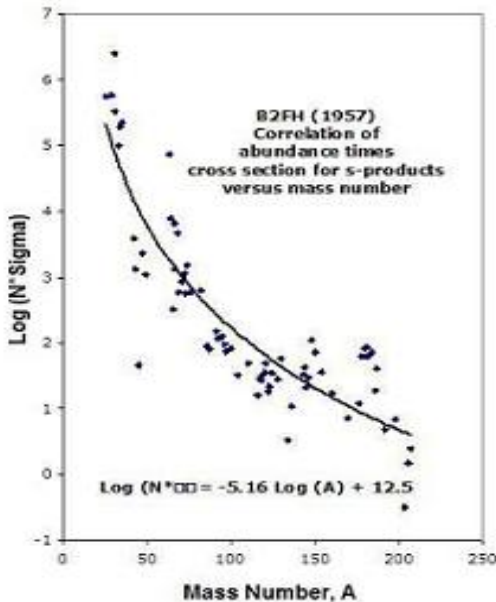


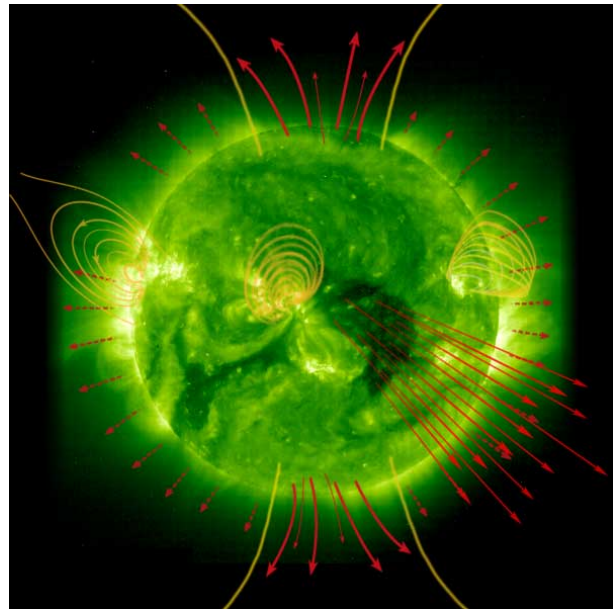
Photosphere Record of Mass Sorting

Light s-products (25 - 207 amu) [9] enriched in photosphere by 10-stages of mass fractionation.

Mass Fractionation Enriches Lightweight s-Products [9] in the Sun's Photosphere ↓



Material from coronal holes (*long, red arrows from open magnetic fields*) moves faster and is less mass fractionated than material that leaves in the slow solar wind (*short, red arrows from closed magnetic loops* ↓)



Deep magnetic fields from the collapsed SN core bring H^+ to the surface [10] with more heavy isotopes [11] and heavy elements [12] in the open magnetic fields of solar flares than in the closed field loops of the quiet solar wind [13].

Isotope Ratios	Solar Wind	Solar Flares	SW/SF	Expected**
$^3\text{He}/^4\text{He}$	4.1×10^{-4}	2.6×10^{-4}	1.58	1.63
$^{20}\text{Ne}/^{22}\text{Ne}$	13.6	11.6	1.17	1.18
$^{24}\text{Mg}/^{26}\text{Mg}$	7.0	6.0	1.17	1.15
$^{36}\text{Ar}/^{38}\text{Ar}$	5.3	4.8	1.10	1.10

** Expected if solar flares by-pass 3-stages of mass fractionation [11].