La formula no es correcta al considerar la energia del limite termico igual a la energia de enlace nuclear ya que la energia del limite termico resulta ser varias veces superior a la energia de enlace:

Energía de Enlace Nuclear $= \triangle mc^2 = T_d = T_{nat}\left(1 + \frac{16n^2}{Z}\right)$

Formula general

$M_z = Z(1.503\,3\times10^{-10}J)+N(1.505\,4\times10^{-10}J)-9.946\,6\times10^{-11}J\left(1 + \frac{16n^2}{26}\right)$

Ejemplos

$^{56}_{26}$Fe

$M_z = 26(1.503\,3\times10^{-10}J)+30(1.505\,4\times10^{-10}J)-9.946\,6\times10^{-11}J\left(1 + \frac{16.\cdot(2)^2}{26}\right) = 8.080\,5\times10^{-9}J$

$\frac{8.080\,5\times10^{-9}J}{1.6605402\times10^{-27}kg\cdot(2.99792458\times10^{8}ms^{-1})^2} = 54.144\frac{J}{(kg)m^2}s^2$

$M_z = 26\cdot(1.503\,3\times10^{-10}J)+32\cdot(1.505\,4\times10^{-10}J)-9.946\,6\times10^{-11}J\left(1 + \frac{16n^2}{26}\right)$

$^{62}_{28}$Ni

$M_z = 28(1.503\,3\times10^{-10}J)+34(1.505\,4\times10^{-10}J)-9.946\,6\times10^{-11}J\left(1 + \frac{16\cdot3^2}{28}\right) = 8.716\,6\times10^{-9}J$

$\frac{8.716\,6\times10^{-9}J}{1.6605402\times10^{-27}kg\cdot(2.99792458\times10^{8}ms^{-1})^2} = 58.406\frac{J}{(kg)m^2}s^2$

$^{66}_{30}$Zn

$M_z = 30(1.503\,3\times10^{-10}J)+36(1.505\,4\times10^{-10}J)-9.946\,6\times10^{-11}J\left(1 + \frac{16.\cdot3^2}{30}\right) = 9.352\,4\times10^{-9}J$

$\frac{9.352\,4\times10^{-9}J}{1.6605402\times10^{-27}kg\cdot(2.99792458\times10^{8}ms^{-1})^2} = 62.666\frac{J}{(kg)m^2}s^2$