

I.S. Tower Tues Aug 30, 2011

Z = -18.0 A = 37.0 W0 = 11.03028 Qec = 6147.46 keV
ga = 0.9240 gm = 4.7060 gv = 1.0000 fp = -167.28
fs = 0.0000 ft = 0.0000

Harmonic oscillator: hw = 11.25 MeV b = 1.920 fm alpha = 0.5209
fm**-1

Spectroscopic amplitudes file: ../ortwz/sort/
tapell_USD_A37FGT

Initial state, 2*J = 3 2*T = 1 Dim = 20 SM energy = -239.19614
Final state, 2*J = 3 2*T = 1 Dim = 20 SM energy = -239.19614

MF = 1.000 MGT = -0.624 Mr2 = 12.899 Msr2 = -8.046
ML = 1.416 MsL = 0.000 MQ = -0.827
M1y = -10.105 M2y = 0.000 M3y = 2.052

For T=1/2 mirror doublets, isovector magnetic moment, proton -
neutron

xmu = -1.177 with free-nucleon g-factors

b = -56.222 from xmu above

isovector difference in Q = -0.739 e fm² with bare charges

g = 0.342E+05 from Q above

Holstein form factors

a1 = 1.000 c1 = -0.576 a2 = 2.150 c2 = -1.731

b = -56.2 d1 = -14.3 f = -3.394

g = 0.342E+05 j1 = 0.193E+06 j2 = -0.119E-01

j3 = -0.392E+05 h = 0.402E+05

b/Ac = 2.636

ft = 0.4611E+04 log ft = 3.664
