



$$W_i(z) = 2(\varepsilon_{g0/2} - \varepsilon_F) - E_{cgr}(z)$$

$$\chi_1^a(k) = \frac{\frac{1}{2} \Omega_k^{\eta_2} \Lambda_1(z)}{\mathcal{Z}(E_k - E_F) - W_1(z)}$$

11/11/14 all energies
within enter X, Y (4)
go positive (4)
Box 3

$$2(E_R - E_F) - W_i(t_2) = \text{[scribbled out]}$$

$$= 2(E_R - E_F) - (2(E_{g/2} - E_F) - E_{corr}(+z))$$

$$= 2(E_K - E_{g/2}) + E_{corr}(+2)$$

$$= 2(|E_{g_{9/2}}| - |E_K|) + E_{corr}(+Z)$$

$$X_1^a(k) = \frac{\frac{1}{2} \Omega_N^{\frac{N}{2}} \Lambda_1(+2)}{2(|E_{g_{1/2}}| - |E_k|) + E_{\text{corr}}(+2)}$$



$$Y_1^a(i) = - \frac{\frac{1}{2} \Omega_{\frac{1}{2}}^{1/2} \Lambda_1(+2)}{2(\epsilon_F - \epsilon_L) + W_1(+2)}$$

$$2(\varepsilon_f - \varepsilon_i) + W_1(+2) = 2(\cancel{\varepsilon_f} - \varepsilon_i) + 2(\cancel{\varepsilon_{g/2}} - \cancel{\varepsilon_f}) + E_{\text{corr}}(+2)$$

$$= 2(E_{p/2} - E_i) + 2(E_{g/2} - E_{p/2}) - E_{\text{corr}}(t_2)$$

$$= 2(|\varepsilon_i| - |\varepsilon_{p/2}|) + 2(|\varepsilon_{p/2}| - |\varepsilon_{g/2}|) - E_{\text{corr}}(+2)$$

s.p. gap 3.41 MW

1,248 MHz

(see Fig. 1)

~~constant~~

OK $\gamma_1(i) = \frac{\frac{1}{2} \Omega_2^{1/2} \Lambda_1 (+2)}{2(|\varepsilon_i| - |\varepsilon_{py2}|) + 5.032 \text{ MeV}} \quad 6.28 \text{ MeV}$

$$Y_1^a(i) = - \frac{\frac{1}{2} \Omega_i^{1/2} \Lambda_1(+2)}{2(|\varepsilon_i| - |\varepsilon_{p/2}|) + 2 \Delta \varepsilon_{sp} - E_{covr}(+2)}$$

$$\Delta E_{sp} = \text{single-particle closed shell gap} > 0$$