One then obtains

$$\Lambda^{2} = \left\{ \frac{2 h \omega_{pigmy}}{\left[(E_{py_{2}} - E_{sy_{2}})^{2} (h \omega_{pigmy}) \right]^{2}} \right\}$$

$$= \left\{ \frac{2 MeV}{\left[(0.5)^{2} - (1 MeV)^{2} \right]^{2} MeV^{4}} \right\}$$

$$= \left(\frac{0.75}{1.57} \right)^{2} = 0.48 \text{ MeV}^{2}$$

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$$\text{Leading to } \Lambda = 0.7 \text{ MeV}. \text{ The value of }$$

$$\text{Induced interaction matrix element is}$$

$$\text{Then given by }$$

$$\text{Mind} = -\frac{\Lambda^{2}}{\text{hispigmy}} = -0.5 \text{ MeV},$$

$$\text{and the same contribution for the other time ordering.}$$

$$\text{Assuming the halo neutrons to spend the same amount of time in the $|sy_{2}(0)\rangle$ (Ey=0.1MeV) than in the $|py_{2}(0)\rangle$ (2py_{2}=0.6 MeV) configuration,$$

the correlation energy in Ecorr = 12(E1/2+Ep/2)/2+2 Mindl = 0.3 NeV, in overall agreement with the findings (0.380 MeV, reference).