$f_{\rho NN}^{(1)} / f_\rho = 0.3747$

$(f_{\omega NN}^{(1)} / f_\omega) = 1.5717$

$(f_{\phi NN}^{(1)} / f_\phi) = -1.1247$

$f_\rho = 4.9582$

$f_\omega = 17.0620$

$f_\phi = 13.4428$

$(f_{\rho NN}^{(2)} / f_\rho) = ? = +\frac{1}{2}(\mu_p - \mu_n - 1) \frac{m_{\rho''}^2 m_{\rho'}^2}{(m_{\rho'}^2 - m_\rho^2)(m_{\rho''}^2 - m_\rho^2)}$ V

$f_{\omega NN}^{(2)} / f_\omega = -0.2036$

$f_{\phi NN}^{(2)} / f_\phi = 0.2657$

$(f_{\rho' NN}^{(1)} / f_{\rho'}) = ? = -\frac{1}{2} \frac{(m_{\rho''}^2 - 2m_\rho^2)}{(m_{\rho''}^2 - m_{\rho'}^2)} (f_{\rho NN}^{(1)} / f_\rho)$ X

$(f_{\omega' NN}^{(1)} / f_{\omega'}) = 0.0418$

$(f_{\phi' NN}^{(1)} / f_{\phi'}) = 0.1879$

$f_{\rho'} =$

$f_{\omega'} =$

$f_{\phi'} =$

$(f_{\rho' NN}^{(2)} / f_{\rho'}) = ? = -\frac{1}{2}(\mu_p - \mu_n - 1) \frac{m_{\rho''}^2 m_\rho^2}{(m_{\rho''}^2 - m_{\rho'}^2)(m_{\rho'}^2 - m_\rho^2)}$ V

$(f_{\omega' NN}^{(2)} / f_{\omega'}) = ?$

$(f_{\phi' NN}^{(2)} / f_{\phi'}) = 0.1781$

$= +\frac{1}{2}(\mu_p + \mu_n - 1) \frac{m_{\omega''}^2 m_{\phi''}^2}{(m_{\phi''}^2 - m_{\omega'}^2)(m_{\omega''}^2 - m_{\omega'}^2)} -$

$- \frac{(m_{\phi''}^2 - m_{\omega'}^2)(m_{\omega''}^2 - m_\omega^2)}{(m_{\phi''}^2 - m_{\omega'}^2)(m_{\omega''}^2 - m_{\omega'}^2)} (f_{\omega NN}^{(2)} / f_\omega) -$

$- \frac{(m_{\phi''}^2 - m_{\phi'}^2)(m_{\omega''}^2 - m_{\phi'}^2)}{(m_{\phi'}^2 - m_{\omega'}^2)(m_{\omega''}^2 - m_{\omega'}^2)} (f_{\phi NN}^{(2)} / f_\phi) -$

$- \frac{(m_{\phi''}^2 - m_{\phi'}^2)(m_{\omega''}^2 - m_{\phi'}^2)}{(m_{\phi''}^2 - m_{\omega'}^2)(m_{\omega''}^2 - m_{\omega'}^2)} (f_{\phi' NN}^{(2)} / f_{\phi'})$ V