$$X_{j,l} = \frac{1}{\tilde{\Delta}_1^{-1} v_{1,1} + \tilde{\Delta}_2^{-1} v_{2,2} - \frac{2c}{g^2} V(r)} \sum_m \tilde{\Delta}_m^{-1} (v_{l,m} \Phi_{j,m}^{\mathcal{E}s-} - v_{j,m} \Phi_{m,l}^{\mathcal{E}s-}) \,.$$