$$= \frac{1}{2}d_{kk}; \qquad = \gamma_{k,j}^{R}; \qquad = \gamma_{k,j}^{R}; \qquad = \gamma_{k,j}^{I}; \qquad = -1; \qquad = 1; \qquad = \frac{1}{2}\alpha_{j}.$$