Order parameter 
$$\left( \langle \tilde{0} | PP^{\dagger} | \tilde{0} \rangle \right)^{1/2} = \left\{ \begin{array}{l} \alpha_0 = \sum_{\nu>0} U_{\nu}' V_{\nu}' \\ \alpha_{dyn} = \sum_{\nu>0} U_{\nu}^{eff} V_{\nu}^{eff} \end{array} \right.$$
 pairing vibrations

$$\left(U_{\nu}^{eff}\right)^{2} = 2Y_{a}^{2}(j_{\nu})/\Omega_{\nu}; \quad \left(U_{\nu}^{eff}\right)^{2} = 1 - \left(U_{\nu}^{eff}\right)^{2}$$

 $\left. \begin{array}{l} X_n(j_v) \\ Y_n(j_v) \end{array} \right\} = \frac{\left(\sqrt{\Omega_j/2}\right)\Gamma_n}{2|E_j| \mp W_n}$ 

pairing rotations

 $\begin{pmatrix} U_{\nu}' \\ V_{\nu}' \end{pmatrix} = \frac{1}{\sqrt{2}} \left( 1 \pm \frac{\epsilon_{\nu}}{\sqrt{\epsilon^2 + \Lambda^2}} \right)^{1/2}$