

$H^{(1,1)}$  $H^{(2,2)}$  $\phi_{n+1}^{(1,1)}$  $\phi_n^{(1,1)}$  $\vdots$  $\phi_3^{(1,1)}$  $\phi_2^{(1,1)}$  $\phi_1^{(1,1)}$  $\phi_0^{(1,1)}$  $\left[ \begin{array}{l} \text{---} \\ \text{---} \\ \vdots \\ \text{---} \\ \text{---} \\ \text{---} \\ \text{---} \\ \text{---} \end{array} \right.$  $E_2^{(1)}$  $E_0^{(1)} = 0$  $E_0^{(1)} = 0$  $B^\dagger$  $B$  $\phi_{n+1}^{(2,2)}$  $\phi_n^{(2,2)}$  $\vdots$  $\phi_3^{(2,2)}$  $\phi_2^{(2,2)}$  $\phi_1^{(2,2)}$  $\left[ \begin{array}{l} \text{---} \\ \text{---} \\ \vdots \\ \text{---} \\ \text{---} \\ \text{---} \end{array} \right.$  $E_2^{(2)}$  $E_0^{(2)} = 0$