

$$\begin{array}{c}
 H^{(0)} \\
 \vdots \\
 \phi_2^{(0)} \text{ --- } E_2^{(0)} \\
 \phi_1^{(0)} \text{ --- } E_1^{(0)} \\
 \phi_0^{(0)} \text{ --- } E_0^{(0)} \neq 0
 \end{array}$$

$$\phi_n^{(0)}(x) = Q_0^n \left(i \frac{A \sin \left(\frac{s_1}{2a} x \right) - B \cos \left(\frac{s_1}{2a} x \right)}{A \cos \left(\frac{s_1}{2a} x \right) + B \sin \left(\frac{s_1}{2a} x \right)} \right)$$