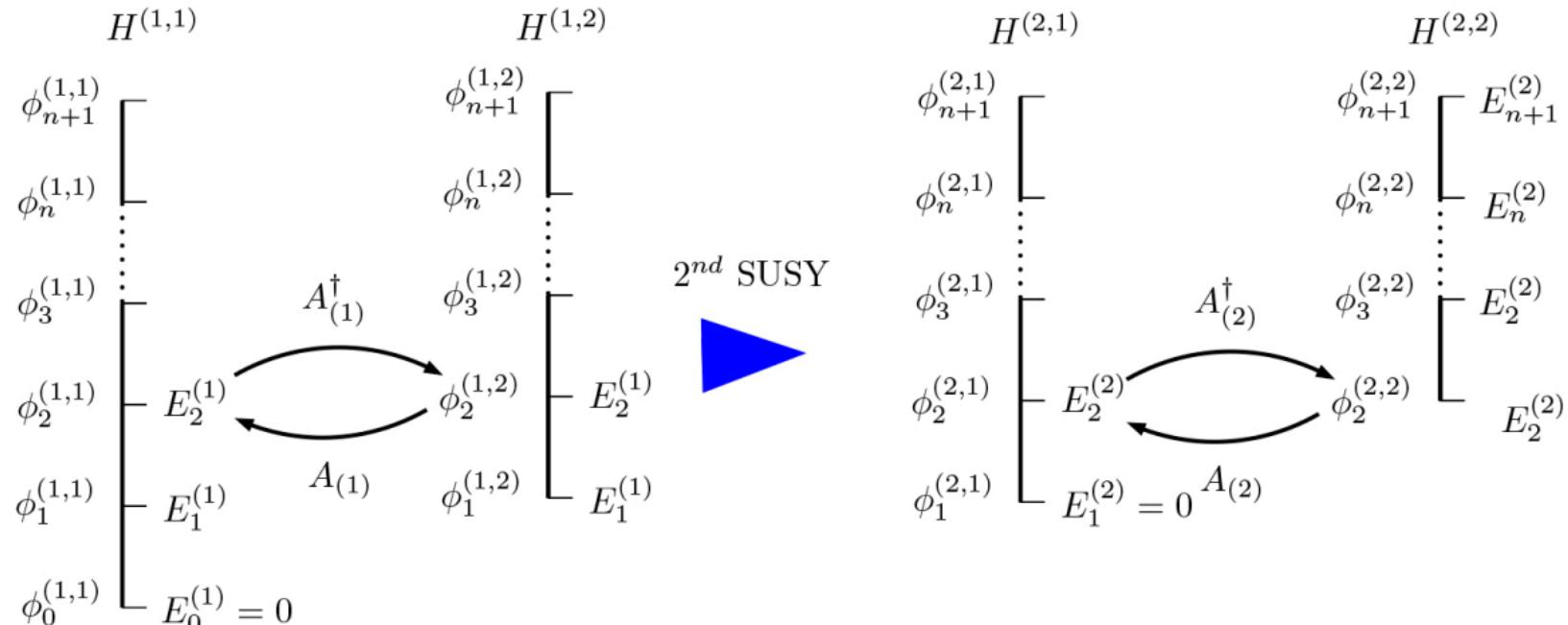


$$H^{(0)} = \begin{bmatrix} \phi_2^{(0)} & E_2^{(0)} \\ \phi_1^{(0)} & E_1^{(0)} \\ \phi_0^{(0)} & E_0^{(0)} \neq 0 \end{bmatrix}$$

1^{st} SUSY 



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

$$\phi_n^{(1,2)}(x) = Q_1^n \left(i \frac{A \sin\left(\frac{s_1}{2a}x\right) - B \cos\left(\frac{s_1}{2a}x\right)}{A \cos\left(\frac{s_1}{2a}x\right) + B \sin\left(\frac{s_1}{2a}x\right)} \right)$$

$$\phi_n^{(2,2)}(x) = Q_2^n \left(i \frac{A \sin\left(\frac{s_1}{2a}x\right) - B \cos\left(\frac{s_1}{2a}x\right)}{A \cos\left(\frac{s_1}{2a}x\right) + B \sin\left(\frac{s_1}{2a}x\right)} \right)$$