

$2^{nd}$  SUSY



$$\begin{array}{ccc}
 & H^{(2,1)} & H^{(2,2)} \\
 \begin{array}{c} \phi_{n+1}^{(2,1)} \\ \phi_n^{(2,1)} \\ \vdots \\ \phi_3^{(2,1)} \\ \phi_2^{(2,1)} \\ \phi_1^{(2,1)} \end{array} & \begin{array}{c} \left[ \right. \\ \left[ \right. \\ \vdots \\ \left[ \right. \\ \left[ \right. \\ \left[ \right. \\ E_1^{(2)} = 0 \end{array} & \begin{array}{c} \phi_{n+1}^{(2,2)} \\ \phi_n^{(2,2)} \\ \vdots \\ \phi_3^{(2,2)} \\ \phi_2^{(2,2)} \\ \phi_1^{(2,2)} \end{array} \begin{array}{c} \left[ \right. E_{n+1}^{(2)} \\ \left[ \right. E_n^{(2)} \\ \vdots \\ \left[ \right. E_2^{(2)} \\ \left[ \right. E_1^{(2)} \end{array} \\
 & \begin{array}{c} \xrightarrow{A_{(2)}^\dagger} \\ \xleftarrow{A_{(2)}} \end{array} &
 \end{array}$$