

Two Electronic Levels

$|GS\rangle$ $|ES\rangle$

GS = { 'val': 0, 'name': 'GS' }

ES = { 'val': 0, 'name': 'ES' }

$$\mathcal{H} = \mathcal{H}_{GS} \oplus \mathcal{H}_{ES}$$

$$\begin{bmatrix} \bullet & \bullet \\ \bullet & \bullet \end{bmatrix} \oplus \begin{bmatrix} \bullet & \bullet \\ \bullet & \bullet \end{bmatrix} = \begin{bmatrix} \bullet & \bullet & & \\ \bullet & \bullet & & \\ & & \bullet & \bullet \\ & & \bullet & \bullet \end{bmatrix}$$

a = sos.System((GS,ES))