

$\text{In}[\bullet]:= \text{H}_{\text{int}} = -\frac{\hbar}{2} \text{PauliMatrix}[3] + \frac{\hbar}{2} \text{PauliMatrix}[1];$   
 [泡利自旋矩阵] [泡利自旋矩阵]

$\text{Grid}[\text{Insert}[\text{Transpose}[\{\text{Eigenvalues}[\text{H}_{\text{int}}], \text{Normalize} / \text{@ Eigenvectors}[\text{H}_{\text{int}}]\}],$   
 [格子] [插入] [转置] [特征值] [正规化] [特征向量]  
 $\{\text{"Eigenvalue"}, \text{"Eigenvector"}\}, 1], \text{Frame} \rightarrow \text{All}]$   
 [边框] [全部]

$\text{Out}[\bullet]=$

Eigenvalue	Eigenvector
$-\frac{1}{2} \sqrt{\delta^2 + \Omega^2} \hbar$	$\left\{ -\frac{\delta + \sqrt{\delta^2 + \Omega^2}}{\Omega \sqrt{1 + \text{Abs}\left[\frac{\delta + \sqrt{\delta^2 + \Omega^2}}{\Omega}\right]^2}}, \frac{1}{\sqrt{1 + \text{Abs}\left[\frac{\delta + \sqrt{\delta^2 + \Omega^2}}{\Omega}\right]^2}} \right\}$
$\frac{1}{2} \sqrt{\delta^2 + \Omega^2} \hbar$	$\left\{ -\frac{\delta - \sqrt{\delta^2 + \Omega^2}}{\Omega \sqrt{1 + \text{Abs}\left[\frac{\delta - \sqrt{\delta^2 + \Omega^2}}{\Omega}\right]^2}}, \frac{1}{\sqrt{1 + \text{Abs}\left[\frac{\delta - \sqrt{\delta^2 + \Omega^2}}{\Omega}\right]^2}} \right\}$