Hasimolo demotrador que:

$$S[A] \cdot \begin{pmatrix} 0 \\ 0 \end{pmatrix} = \begin{pmatrix} ch 1/i \\ sh 1/i \end{pmatrix} \otimes \begin{pmatrix} e^{-i\phi/i} & sm 1/i \end{pmatrix}$$

$$S[A] \cdot \begin{pmatrix} 0 \\ 0 \end{pmatrix} = \begin{pmatrix} ch 1/i \\ sh 1/i \end{pmatrix} \otimes \begin{pmatrix} e^{i\phi/i} & sm 1/i \end{pmatrix}$$

$$Calmber le acam de  $S(A)$  sobre los otros rectores de la base.

Simula

$$S[A] \cdot \begin{pmatrix} 0 \\ 0 \end{pmatrix} = \begin{pmatrix} ch 1/i \\ sh 1/i \end{pmatrix} \otimes \begin{pmatrix} e^{i\phi} & sm 1/i \\ e^{i\phi} & sm 1/i \end{pmatrix} = \begin{pmatrix} e^{i\phi} & sm 1/i \\ sh 1/i \end{pmatrix} \otimes \begin{pmatrix} e^{i\phi} & sm 1/i \\ e^{i\phi} & sm 1/i \end{pmatrix} + \begin{pmatrix} sh 1/i \\ sh 1/i \end{pmatrix} \otimes \begin{pmatrix} e^{i\phi} & sm 1/i \\ e^{i\phi} & sm 1/i \end{pmatrix} = \begin{pmatrix} ch 1/i \\ sh 1/i \end{pmatrix} \otimes \begin{pmatrix} e^{i\phi} & sm 1/i \\ e^{i\phi} & sm 1/i \end{pmatrix} = \begin{pmatrix} ch 1/i \\ sh 1/i \end{pmatrix} \otimes \begin{pmatrix} e^{i\phi} & sm 1/i \\ e^{i\phi} & sm 1/i \end{pmatrix} = \begin{pmatrix} ch 1/i \\ sh 1/i \end{pmatrix} \otimes \begin{pmatrix} e^{i\phi} & sm 1/i \\ e^{i\phi} & sm 1/i \end{pmatrix} = \begin{pmatrix} ch 1/i \\ sh 1/i \end{pmatrix} \otimes \begin{pmatrix} e^{i\phi} & sm 1/i \\ e^{i\phi} & sm 1/i \end{pmatrix} = \begin{pmatrix} ch 1/i \\ sh 1/i \end{pmatrix} \otimes \begin{pmatrix} e^{i\phi} & sm 1/i \\ sh 1/i \end{pmatrix} = \begin{pmatrix} ch 1/i \\ sh 1/i \end{pmatrix} \otimes \begin{pmatrix} e^{i\phi} & sm 1/i \\ e^{i\phi} & sm 1/i \end{pmatrix} = \begin{pmatrix} ch 1/i \\ sh 1/i \end{pmatrix} \otimes \begin{pmatrix} e^{i\phi} & sm 1/i \\ sh 1/i \end{pmatrix} = \begin{pmatrix} ch 1/i \\ sh 1/i \end{pmatrix} \otimes \begin{pmatrix} e^{i\phi} & sm 1/i \\ e^{i\phi} & sm 1/i \end{pmatrix} = \begin{pmatrix} ch 1/i \\ sh 1/i \end{pmatrix} \otimes \begin{pmatrix} e^{i\phi} & sm 1/i \\ sh 1/i \end{pmatrix} = \begin{pmatrix} ch 1/i \\ sh 1/i \end{pmatrix} \otimes \begin{pmatrix} e^{i\phi} & sm 1/i \\ sh 1/i \end{pmatrix} = \begin{pmatrix} ch 1/i \\ sh 1/i \end{pmatrix} \otimes \begin{pmatrix} e^{i\phi} & sm 1/i \\ sh 1/i \end{pmatrix} = \begin{pmatrix} ch 1/i \\ sh 1/i \end{pmatrix} \otimes \begin{pmatrix} e^{i\phi} & sm 1/i \\ sh 1/i \end{pmatrix} = \begin{pmatrix} ch 1/i \\ sh 1/i \end{pmatrix} \otimes \begin{pmatrix} e^{i\phi} & sm 1/i \\ sh 1/i \end{pmatrix} = \begin{pmatrix} ch 1/i \\ sh 1/i \end{pmatrix} \otimes \begin{pmatrix} e^{i\phi} & sm 1/i \\ sh 1/i \end{pmatrix} = \begin{pmatrix} ch 1/i \\ sh 1/i \end{pmatrix} \otimes \begin{pmatrix} e^{i\phi} & sm 1/i \\ sh 1/i \end{pmatrix} = \begin{pmatrix} ch 1/i \\ sh 1/i \end{pmatrix} \otimes \begin{pmatrix} e^{i\phi} & sm 1/i \\ sh 1/i \end{pmatrix} = \begin{pmatrix} ch 1/i \\ sh 1/i \end{pmatrix} \otimes \begin{pmatrix} e^{i\phi} & sm 1/i \\ sh 1/i \end{pmatrix} = \begin{pmatrix} ch 1/i \\ sh 1/i \end{pmatrix} \otimes \begin{pmatrix} e^{i\phi} & sm 1/i \\ sh 1/i \end{pmatrix} = \begin{pmatrix} ch 1/i \\ sh 1/i \end{pmatrix} \otimes \begin{pmatrix} e^{i\phi} & sm 1/i \\ sh 1/i \end{pmatrix} = \begin{pmatrix} ch 1/i \\ sh 1/i \end{pmatrix} \otimes \begin{pmatrix} e^{i\phi} & sm 1/i \\ sh 1/i \end{pmatrix} = \begin{pmatrix} ch 1/i \\ sh 1/i \end{pmatrix} \otimes \begin{pmatrix} e^{i\phi} & sm 1/i \\ sh 1/i \end{pmatrix} = \begin{pmatrix} ch 1/i \\ sh 1/i \end{pmatrix} \otimes \begin{pmatrix} e^{i\phi} & sm 1/i \\ sh 1/i \end{pmatrix} \otimes \begin{pmatrix} e^{i\phi} & sm 1/i \\ sh 1/i \end{pmatrix} \otimes \begin{pmatrix} e^{i\phi} & sm 1/i \\ sh 1/i \end{pmatrix} \otimes \begin{pmatrix} e^{i\phi} & sm 1/i \\ sh 1/i \end{pmatrix} \otimes \begin{pmatrix} e^{i\phi} & sm 1/i \\ sh 1/i \end{pmatrix} \otimes \begin{pmatrix} e^{i\phi} & sm 1/i \\ sh 1/i \end{pmatrix} \otimes \begin{pmatrix} e^{i\phi} & sm 1/i \\ sh 1/i \end{pmatrix} \otimes \begin{pmatrix} e^{i\phi} & sm 1/i \\ sh 1/i \end{pmatrix} \otimes \begin{pmatrix} e^{i\phi} & sm 1/i \\ sh 1/i \end{pmatrix} \otimes \begin{pmatrix} e^{i\phi} & sm 1/i \\ sh 1/i \end{pmatrix} \otimes \begin{pmatrix} e^{i\phi} & sm 1/i \\ sh 1/i \end{pmatrix} \otimes \begin{pmatrix} e^{i\phi} & sm 1/i \\ sh 1/i \end{pmatrix} \otimes \begin{pmatrix} e^{i\phi} & sm 1/i \\ sh 1/i \end{pmatrix} \otimes \begin{pmatrix} e^{i\phi}$$$$

$$\begin{array}{c}
S(\Lambda) = I(\Lambda) \\
T(\Lambda) = S(\Lambda) \left[ \begin{pmatrix} 1 \\ 0 \end{pmatrix} \otimes \begin{pmatrix} 0 \\ 1 \end{pmatrix} \right] = \begin{pmatrix} T_1 + T_2 \end{pmatrix} \left[ \begin{pmatrix} 1 \\ 0 \end{pmatrix} \otimes \begin{pmatrix} 0 \\ 1 \end{pmatrix} \right] \\
T_1 \left[ \begin{pmatrix} 1 \\ 0 \end{pmatrix} \otimes \begin{pmatrix} 0 \\ 1 \end{pmatrix} \right] = \begin{pmatrix} Ch V_1 \\ 0 \end{pmatrix} \begin{pmatrix} -e^{-i\frac{\pi}{2}} & \text{pun} \theta_{12} \\ e^{i\frac{\pi}{2}} & \text{sun} \theta_{12} \end{pmatrix} \\
T_2 \left[ \begin{pmatrix} 1 \\ 0 \end{pmatrix} \otimes \begin{pmatrix} 0 \\ 1 \end{pmatrix} \right] = \begin{pmatrix} 0 \\ -sh V_1 \end{pmatrix} \begin{pmatrix} e^{-i\frac{\pi}{2}} & \text{pun} \theta_{12} \\ -e^{i\frac{\pi}{2}} & \text{pun} \theta_{12} \end{pmatrix} \\
= \begin{pmatrix} 0 \\ -sh V_2 \end{pmatrix} \begin{pmatrix} -e^{-i\frac{\pi}{2}} & \text{pun} \theta_{12} \\ e^{i\frac{\pi}{2}} & \text{pun} \theta_{12} \\ e^{i\frac{\pi}{2}} & \text{pun} \theta_{12} \end{pmatrix}
\end{array}$$

$$S[\Lambda] \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix} = \begin{pmatrix} 0 & 1/1 \\ -sh & 1/1 \end{pmatrix} \begin{pmatrix} -e^{-ikl} sun & 0/1 \\ e^{i\theta/1} cos & 0/1 \end{pmatrix}$$

$$\begin{array}{l}
\left( \begin{array}{c} \mathbb{E} \\ \mathbb{E} \\$$

$$\begin{array}{ll}
\blacksquare S[\Lambda] \begin{pmatrix} \circ \\ \circ \\ \cdot \end{pmatrix} = S[\Lambda] \left[ \begin{pmatrix} \circ \\ \circ \\ \cdot \end{pmatrix} \otimes \begin{pmatrix} \circ \\ \cdot \\ \cdot \end{pmatrix} \right] = \begin{pmatrix} -e^{-i\beta / 2} \sin^2 / 2 \\ e^{i\beta / 2} \cos^2 / 2 \end{pmatrix} \\
\Gamma_1 \left[ \begin{pmatrix} \circ \\ \circ \\ \cdot \\ \cdot \end{pmatrix} \otimes \begin{pmatrix} \circ \\ \circ \\ \cdot \\ \cdot \end{pmatrix} \right] = \begin{pmatrix} -e^{-i\beta / 2} \sin^2 / 2 \\ e^{i\beta / 2} \cos^2 / 2 \end{pmatrix} \\
\Gamma_2 \left[ \begin{pmatrix} \circ \\ \circ \\ \cdot \\ \cdot \\ \cdot \end{pmatrix} \otimes \begin{pmatrix} \circ \\ \circ \\ \cdot \\ \cdot \\ \cdot \end{bmatrix} \right] = \begin{pmatrix} -e^{-i\beta / 2} \sin^2 / 2 \\ -e^{-i\beta / 2} \cos^2 / 2 \end{pmatrix} \\
= \begin{pmatrix} -e^{-i\beta / 2} \cos^2 / 2 \\ -e^{-i\beta / 2} \cos^2 / 2 \end{pmatrix} \\
= \begin{pmatrix} -e^{-i\beta / 2} \cos^2 / 2 \\ -e^{-i\beta / 2} \cos^2 / 2 \end{pmatrix} \\
= \begin{pmatrix} -e^{-i\beta / 2} \cos^2 / 2 \\ -e^{-i\beta / 2} \cos^2 / 2 \end{pmatrix} \\
= \begin{pmatrix} -e^{-i\beta / 2} \cos^2 / 2 \\ -e^{-i\beta / 2} \cos^2 / 2 \end{pmatrix} \\
= \begin{pmatrix} -e^{-i\beta / 2} \cos^2 / 2 \\ -e^{-i\beta / 2} \cos^2 / 2 \end{pmatrix} \\
= \begin{pmatrix} -e^{-i\beta / 2} \cos^2 / 2 \\ -e^{-i\beta / 2} \cos^2 / 2 \end{pmatrix} \\
= \begin{pmatrix} -e^{-i\beta / 2} \cos^2 / 2 \\ -e^{-i\beta / 2} \cos^2 / 2 \end{pmatrix} \\
= \begin{pmatrix} -e^{-i\beta / 2} \cos^2 / 2 \\ -e^{-i\beta / 2} \cos^2 / 2 \end{pmatrix} \\
= \begin{pmatrix} -e^{-i\beta / 2} \cos^2 / 2 \\ -e^{-i\beta / 2} \cos^2 / 2 \end{pmatrix} \\
= \begin{pmatrix} -e^{-i\beta / 2} \cos^2 / 2 \\ -e^{-i\beta / 2} \cos^2 / 2 \end{pmatrix} \\
= \begin{pmatrix} -e^{-i\beta / 2} \cos^2 / 2 \\ -e^{-i\beta / 2} \cos^2 / 2 \end{pmatrix} \\
= \begin{pmatrix} -e^{-i\beta / 2} \cos^2 / 2 \\ -e^{-i\beta / 2} \cos^2 / 2 \end{pmatrix} \\
= \begin{pmatrix} -e^{-i\beta / 2} \cos^2 / 2 \\ -e^{-i\beta / 2} \cos^2 / 2 \end{pmatrix} \\
= \begin{pmatrix} -e^{-i\beta / 2} \cos^2 / 2 \\ -e^{-i\beta / 2} \cos^2 / 2 \end{pmatrix} \\
= \begin{pmatrix} -e^{-i\beta / 2} \cos^2 / 2 \\ -e^{-i\beta / 2} \cos^2 / 2 \end{pmatrix} \\
= \begin{pmatrix} -e^{-i\beta / 2} \cos^2 / 2 \\ -e^{-i\beta / 2} \cos^2 / 2 \end{pmatrix} \\
= \begin{pmatrix} -e^{-i\beta / 2} \cos^2 / 2 \\ -e^{-i\beta / 2} \cos^2 / 2 \end{pmatrix} \\
= \begin{pmatrix} -e^{-i\beta / 2} \cos^2 / 2 \\ -e^{-i\beta / 2} \cos^2 / 2 \end{pmatrix} \\
= \begin{pmatrix} -e^{-i\beta / 2} \cos^2 / 2 \\ -e^{-i\beta / 2} \cos^2 / 2 \end{pmatrix} \\
= \begin{pmatrix} -e^{-i\beta / 2} \cos^2 / 2 \\ -e^{-i\beta / 2} \cos^2 / 2 \end{pmatrix} \\
= \begin{pmatrix} -e^{-i\beta / 2} \cos^2 / 2 \\ -e^{-i\beta / 2} \cos^2 / 2 \end{pmatrix} \\
= \begin{pmatrix} -e^{-i\beta / 2} \cos^2 / 2 \\ -e^{-i\beta / 2} \cos^2 / 2 \end{pmatrix} \\
= \begin{pmatrix} -e^{-i\beta / 2} \cos^2 / 2 \\ -e^{-i\beta / 2} \cos^2 / 2 \end{pmatrix} \\
= \begin{pmatrix} -e^{-i\beta / 2} \cos^2 / 2 \\ -e^{-i\beta / 2} \cos^2 / 2 \end{pmatrix} \\
= \begin{pmatrix} -e^{-i\beta / 2} \cos^2 / 2 \\ -e^{-i\beta / 2} \cos^2 / 2 \end{pmatrix} \\
= \begin{pmatrix} -e^{-i\beta / 2} \cos^2 / 2 \\ -e^{-i\beta / 2} \cos^2 / 2 \end{pmatrix} \\
= \begin{pmatrix} -e^{-i\beta / 2} \cos^2 / 2 \\ -e^{-i\beta / 2} \cos^2 / 2 \end{pmatrix} \\
= \begin{pmatrix} -e^{-i\beta / 2} \cos^2 / 2 \\ -e^{-i\beta / 2} \cos^2 / 2 \end{pmatrix} \\
= \begin{pmatrix} -e^{-i\beta / 2} \cos^2 / 2 \\ -e^{-i\beta / 2} \cos^2 / 2 \end{pmatrix} \\
= \begin{pmatrix} -e^{-i\beta / 2} \cos^2 / 2 \\ -e^{-i\beta / 2} \cos^2 / 2 \end{pmatrix} \\
= \begin{pmatrix} -e^{-i\beta / 2} \cos^2 / 2 \\ -e^{-i\beta / 2} \cos^2 / 2 \end{pmatrix} \\
= \begin{pmatrix} -e^{-i\beta / 2} \cos^2 / 2 \\ -e^{-i\beta / 2} \cos^2 / 2 \end{pmatrix} \\
= \begin{pmatrix} -e^{-i\beta / 2} \cos^2 / 2 \\ -e^{-i\beta / 2} \cos^2 / 2 \end{pmatrix} \\
=$$