

.....

RESULTS

T. H. (6)

$$\begin{aligned}
 H_{\text{soc}} &= \frac{a}{2} \Theta S \\
 &= \frac{a}{2} \begin{pmatrix} 0 & 0 & -i & 0 & 0 & 1 \\ 0 & 0 & 0 & i & -1 & 0 \\ i & 0 & 0 & 0 & 0 & -i \\ 0 & -i & 0 & 0 & -i & 0 \\ 0 & -1 & 0 & i & 0 & 0 \\ 1 & 0 & i & 0 & 0 & 0 \end{pmatrix}
 \end{aligned}$$