$c\ 1\ c\ 1$

$$\hat{H}c1\hat{H}c1\text{S}c1\hat{H}c1\text{E}c1\hat{H}c1\text{SE}c1 \tag{1}$$

 $\begin{array}{l} c\ 1 \hat{H}_{\rm E}\ c\ 1\ c\ 1\$

$$\hat{H}_{\rm SE} = \chi(t)\boldsymbol{\alpha} \cdot \hat{\boldsymbol{\sigma}} \otimes \hat{O}. \tag{2}$$

 $\begin{array}{c} c \ 1\mathbf{h} \cdot \hat{\boldsymbol{\sigma}} \ c \ 1\boldsymbol{\alpha} \cdot \hat{\boldsymbol{\sigma}} \ c \ 1 \ c \$