

$$\begin{aligned}
& \text{cc } 1 \text{ cc } 1 \text{ cc } 1 \text{ cc } 1 \text{ cc } & \text{cc } 2\hat{H}_{\text{E}} \text{ cc } 2 \text{ cc } 2 \text{ cc } & \text{cc } 3\mathbf{h} \cdot \hat{\boldsymbol{\sigma}} \text{ cc } 3\boldsymbol{\alpha} \cdot \hat{\boldsymbol{\sigma}} \text{ cc } 3 \\
& 1 \text{ cc } 1 \text{ cc } 1 \text{ cc } 1 \text{ cc } 1 \text{ cc } 1 & 2\hat{H}_{\text{S}} = \Omega \mathbf{h} \cdot \hat{\boldsymbol{\sigma}} \text{ cc } 2 \text{ cc } & \text{cc } 3\mathbf{h} \text{ cc } 3\boldsymbol{\alpha} \text{ cc } 3\hat{O} \text{ cc } 3 \\
& \text{cc } 1 \text{ cc } 1 \text{ cc } 1 \text{ cc } 1 \text{ cc } 1 & 2 \text{ cc } 2 \text{ cc } 2 \text{ cc } 2 & \text{cc } 3 \text{ cc } 3 \text{ cc } 3 \text{ cc } 3 \text{ cc } 3 \\
& & & \text{cc } 3\chi(t) \text{ cc } 3 \text{ cc } 3 \text{ cc } \\
\hat{H} = \hat{H}_{\text{S}} + \hat{H}_{\text{E}} + \hat{H}_{\text{SE}}, & \hat{H}_{\text{SE}} = \chi(t)\boldsymbol{\alpha} \cdot \hat{\boldsymbol{\sigma}} \otimes \hat{O}. & 3 \text{ cc } 3 \text{ cc } 3 \text{ cc } 3 \text{ cc } 3 \text{ cc } & \\
(1) & (2) & 3\chi \text{ cc } 3 \text{ cc } 3 &
\end{aligned}$$