

[5] 
$$\int_{0}^{2\pi} \left[ \frac{1}{2} e^{-i\frac{\pi}{4}} e^$$

[8] 
$$\partial_{t}^{A} = \sigma_{1} \leq \sigma_{1}^{A}$$
.  $\partial_{t}^{A} \neq (-2, 2)$ .

$$V(\tau) = \exp(-\frac{\tau}{2} \frac{H}{\tau}) = O_{H} \text{ ad } 5$$

$$H = \alpha \sigma_{1} \qquad cos(-\frac{\alpha \tau}{5}) + \frac{\tau}{2} S_{h}(-\frac{\alpha \tau}{5}) \sigma_{1}$$

$$[\alpha] \quad \hat{V}_{C \rightarrow \phi} = \begin{bmatrix} \cos(-\frac{\alpha \tau}{5}) & \cos(-\frac{\alpha \tau}{5}) & \cos(-\frac{\alpha \tau}{5}) \\ \cos(-\frac{\alpha \tau}{5}) & \cos(-\frac{\alpha \tau}{5}) \end{bmatrix} \quad (1) \quad \hat{V}_{\phi} = \begin{bmatrix} \cos(-\frac{\alpha \tau}{5}) & \cos(-\frac{\alpha \tau}{5}) \\ \cos(-\frac{\alpha \tau}{5}) & \cos(-\frac{\alpha \tau}{5}) \end{bmatrix} \quad (2) \quad \hat{V}_{\phi} = \begin{bmatrix} \cos(-\frac{\alpha \tau}{5}) & \cos(-\frac{\alpha \tau}{5}) \\ \cos(-\frac{\alpha \tau}{5}) & \cos(-\frac{\alpha \tau}{5}) \end{bmatrix} \quad (2) \quad \hat{V}_{\phi} = \begin{bmatrix} \cos(-\frac{\alpha \tau}{5}) & \cos(-\frac{\alpha \tau}{5}) \\ \cos(-\frac{\alpha \tau}{5}) & \cos(-\frac{\alpha \tau}{5}) \end{bmatrix} \quad (2) \quad \hat{V}_{\phi} = \begin{bmatrix} \cos(-\frac{\alpha \tau}{5}) & \cos(-\frac{\alpha \tau}{5}) \\ \cos(-\frac{\alpha \tau}{5}) & \cos(-\frac{\alpha \tau}{5}) \end{bmatrix} \quad (2) \quad \hat{V}_{\phi} = \begin{bmatrix} \cos(-\frac{\alpha \tau}{5}) & \cos(-\frac{\alpha \tau}{5}) \\ \cos(-\frac{\alpha \tau}{5}) & \cos(-\frac{\alpha \tau}{5}) \end{bmatrix} \quad (3) \quad \hat{V}_{\phi} = \begin{bmatrix} \cos(-\frac{\alpha \tau}{5}) & \cos(-\frac{\alpha \tau}{5}) \\ \cos(-\frac{\alpha \tau}{5}) & \cos(-\frac{\alpha \tau}{5}) \end{bmatrix} \quad (3) \quad \hat{V}_{\phi} = \begin{bmatrix} \cos(-\frac{\alpha \tau}{5}) & \cos(-\frac{\alpha \tau}{5}) \\ \cos(-\frac{\alpha \tau}{5}) & \cos(-\frac{\alpha \tau}{5}) \end{bmatrix} \quad (3) \quad \hat{V}_{\phi} = \begin{bmatrix} \cos(-\frac{\alpha \tau}{5}) & \cos(-\frac{\alpha \tau}{5}) \\ \cos(-\frac{\alpha \tau}{5}) & \cos(-\frac{\alpha \tau}{5}) \end{bmatrix} \quad (3) \quad \hat{V}_{\phi} = \begin{bmatrix} \cos(-\frac{\alpha \tau}{5}) & \cos(-\frac{\alpha \tau}{5}) \\ \cos(-\frac{\alpha \tau}{5}) & \cos(-\frac{\alpha \tau}{5}) \end{bmatrix} \quad (3) \quad \hat{V}_{\phi} = \begin{bmatrix} \cos(-\frac{\alpha \tau}{5}) & \cos(-\frac{\alpha \tau}{5}) \\ \cos(-\frac{\alpha \tau}{5}) & \cos(-\frac{\alpha \tau}{5}) \end{bmatrix} \quad (4) \quad \hat{V}_{\phi} = \begin{bmatrix} \cos(-\frac{\alpha \tau}{5}) & \cos(-\frac{\alpha \tau}{5}) \\ \cos(-\frac{\alpha \tau}{5}) & \cos(-\frac{\alpha \tau}{5}) \end{bmatrix} \quad (4) \quad \hat{V}_{\phi} = \begin{bmatrix} \cos(-\frac{\alpha \tau}{5}) & \cos(-\frac{\alpha \tau}{5}) \\ \cos(-\frac{\alpha \tau}{5}) & \cos(-\frac{\alpha \tau}{5}) \end{bmatrix} \quad (4) \quad \hat{V}_{\phi} = \begin{bmatrix} \cos(-\frac{\alpha \tau}{5}) & \cos(-\frac{\alpha \tau}{5}) \\ \cos(-\frac{\alpha \tau}{5}) & \cos(-\frac{\alpha \tau}{5}) \end{bmatrix} \quad (4) \quad \hat{V}_{\phi} = \begin{bmatrix} \cos(-\frac{\alpha \tau}{5}) & \cos(-\frac{\alpha \tau}{5}) \\ \cos(-\frac{\alpha \tau}{5}) & \cos(-\frac{\alpha \tau}{5}) \end{bmatrix} \quad (4) \quad \hat{V}_{\phi} = \begin{bmatrix} \cos(-\frac{\alpha \tau}{5}) & \cos(-\frac{\alpha \tau}{5}) \\ \cos(-\frac{\alpha \tau}{5}) & \cos(-\frac{\alpha \tau}{5}) \end{bmatrix} \quad (4) \quad \hat{V}_{\phi} = \begin{bmatrix} \cos(-\frac{\alpha \tau}{5}) & \cos(-\frac{\alpha \tau}{5}) \\ \cos(-\frac{\alpha \tau}{5}) & \cos(-\frac{\alpha \tau}{5}) \end{bmatrix} \quad (4) \quad \hat{V}_{\phi} = \begin{bmatrix} \cos(-\frac{\alpha \tau}{5}) & \cos(-\frac{\alpha \tau}{5}) \\ \cos(-\frac{\alpha \tau}{5}) & \cos(-\frac{\alpha \tau}{5}) \end{bmatrix} \quad (4) \quad \hat{V}_{\phi} = \begin{bmatrix} \cos(-\frac{\alpha \tau}{5}) & \cos(-\frac{\alpha \tau}{5}) \\ \cos(-\frac{\alpha \tau}{5}) & \cos(-\frac{\alpha \tau}{5}) \end{bmatrix} \quad (4) \quad \hat{V}_{\phi} = \begin{bmatrix} \cos(-\frac{\alpha \tau}{5}) & \cos(-\frac{\alpha \tau}{5}) \\ \cos(-\frac{\alpha \tau}{5}) & \cos(-\frac{\alpha \tau}{5}) \end{bmatrix} \quad (4) \quad \hat{V}_{\phi} = \begin{bmatrix} \cos(-\frac{\alpha \tau}{5}) & \cos(-\frac{\alpha \tau}{5}) \\ \cos(-\frac{\alpha \tau}{5}) & \cos(-\frac{\alpha \tau}{5}) \end{bmatrix} \quad (4) \quad \hat{V}_{\phi} = \begin{bmatrix} \cos(-\frac{\alpha \tau}{5}) & \cos(-\frac{\alpha \tau}{5}) \\ \cos(-\frac{\alpha \tau}{5})$$

M= M exb (5(K+51-w) x1+ (11) @ E(K+30-wpx) Tranverse 917= (0,45,47). 419= (UP,0,0)

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