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 $\tilde{z}$   
 $\frac{\hbar}{2}$   
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 $P^z_+$   
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 $\{P^z_+, P^x_+\}$   
 $\mathcal{H}$   
 $\mathcal{H}$   
 $\mathcal{H}$   
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tory  
Hilbert  
space  
 $\mathcal{H}$   
 $\mathcal{H}_{t_0} \odot$   
 $\mathcal{H}_{t_1}$   
 $\odot$   
 $\mathcal{H}$   
 $\psi_h =$   
 $\psi \odot$   
 $U(t_0, t_1)\psi$   
 $\tilde{Y}$   
 $Y =$   
 $(P^z_+ \otimes P^x_+) \odot$   
 $(P^x_- \otimes P^x_-)$   
 ${}_iY_j =$   
 $\sum_{i=1}^0 \mathcal{P}(Y_i) =$   
 $V\psi$   
 $D^n$   
 $\mathcal{P}(n)$   
 $a_n$   
 $D$   
 ${}_n|V|\psi|^2$   
 $S^z$   
 $S_y$   
 $\psi$   
 $S_y$   
 $S_z$   
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Hilbert  
space  
 $\tilde{H}$   
 $H^\otimes$   
 $D_z^\otimes$   
 $D_y$   
 $\hat{H}$   
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 $\psi$   
 $\psi_s \otimes$   
 $\mathcal{X}_z$   
 $\psi$