

720  $\lambda = \dim \mathcal{H} < \infty$

$$\mathcal{H} \otimes \mathcal{H}^* \ni A = \sum_{i=1}^d \sqrt{\gamma_i} |d_i\rangle \langle p_i|$$

$\dim \mathcal{H} < \infty$        $\gamma_i \geq 0$

$$\langle d_i | d_j \rangle = \delta_{ij}$$
$$\langle p_i | p_j \rangle = \delta_{ij}$$

$$|\Psi \rangle \in \mathcal{H}_1 \otimes \mathcal{H}_2 \ni |\Psi\rangle = \sum_{i=1}^d \sqrt{\eta_i} |d_i\rangle \langle p_i|$$
$$1 = \|\Psi\|^2 = \sum_{i=1}^d \eta_i \quad \eta_i \geq 0$$

$|\Psi\rangle (\Psi)$  ONADZ.

$$(I \otimes T)(|\Psi\rangle (\Psi)) = \underbrace{\Psi}_{\in \mathcal{H}} = \sum_{i=1}^d \eta_i |d_i\rangle \langle d_i|$$

$$(T \otimes I)(|\Psi\rangle (\Psi)) = \Psi_2 = \sum_{j=1}^d \eta_j |p_j\rangle \langle p_j|$$

$$\left( \sum_i \sqrt{\eta_i} |d_i\rangle \langle d_i| \otimes |p_i\rangle \langle p_i| \right)$$

\*  $|\Psi\rangle = |d_1\rangle \otimes |p_1\rangle$

$$|\Psi\rangle = \frac{1}{\sqrt{2}} (|d_1\rangle \otimes |p_1\rangle + |d_2\rangle \otimes |p_2\rangle)$$

$$|\Psi\rangle = \frac{1}{2} (|d_1\rangle \otimes |p_1\rangle + |d_2\rangle \otimes |p_2\rangle + |d_1\rangle \otimes |p_2\rangle + |d_2\rangle \otimes |p_1\rangle)$$

$$= \frac{1}{\sqrt{2}} (|d_1\rangle + |d_2\rangle) \otimes \frac{1}{\sqrt{2}} (|p_1\rangle + |p_2\rangle)$$

$$\phi \mapsto U_L \phi := e^{i h_L} \phi \circ \tilde{\ell}$$

$$h_L(x) := -\frac{m}{2} |L_n - u|^2 T + m(L_n - u)(x - \frac{L_n}{2})$$

$\vdash (m, k) \dashv \text{SLIMM.-JA, JA } \exists g_i : \mathbb{N} \rightarrow \mathbb{R}$

$$\forall \phi \in \mathcal{F}_n^{m,k} \text{-RE } U_L \phi \in \mathcal{F}_{n+k}^{m,k+0g_L}$$

ICYENKOR  $D \Lambda K = D K'$

$$U_L \mid_{\mathcal{F}_n^{m,k}} \text{UNITER}$$

$$U_L' U_L = \omega(\cdot, \cdot) \cdot U_{L'L}$$

$$|| = 1$$

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$$(D_a - i(H_{a1} + H_{a2} + K_2)) \phi(x, \bar{x}) = 0$$

$$(D_a - i\left(\frac{\Delta_1}{2m_1} + \frac{\Delta_2}{2m_2}\right)) (\phi_1, \phi_2) = 0$$

$$x_{N1} | \varphi \rangle < \varphi$$

$$x_{N1} | \varphi \rangle < \varphi \neq 0$$