

CTMRG

$$(L_x, L_y) = (\alpha, \alpha)$$

create-projector-1 (:half)

$$\text{Ex: } (k, l) = (1, 1)$$

neighbor
above

$$w_1 \begin{array}{c} \boxed{u_1} \\ \downarrow \\ \boxed{u_1} \end{array} \xrightarrow{v_1} \begin{array}{c} \boxed{u_1} \\ \downarrow \\ \boxed{u_1} \end{array} \xrightarrow{\alpha} w_2 = k_u = \boxed{\quad} =$$

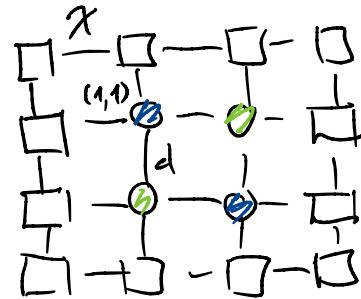
on-site

$$w_1 \begin{array}{c} i \\ | \\ \boxed{u_1} \\ \downarrow \\ \boxed{d_1} \end{array} \xrightarrow{u_1} \begin{array}{c} j_1 \\ | \\ \boxed{u_1} \\ \downarrow \\ \boxed{d_1} \end{array} \xrightarrow{x_1} w_2 = k_d = \boxed{\quad} =$$

$$\rightarrow L = \begin{array}{c} \boxed{\quad} = \\ \boxed{\quad} = \\ \boxed{\quad} = \end{array} \xrightarrow{\text{SVD}} \begin{array}{c} u \\ \parallel \\ O \end{array} - \begin{array}{c} \sqrt{s} \\ \parallel \\ O \end{array} - \begin{array}{c} \sqrt{s} \\ \parallel \\ O \end{array} v^+ = \boxed{\quad} - \boxed{\quad}$$

$$P_{u(1,1)} \quad \boxed{\quad} = \boxed{0} -$$

$$P_{d(1,1)} \quad \boxed{\quad} = \boxed{0} -$$



absorb_and_project_tensors - 1

$$(k, l) = (\ell, \lambda) \Rightarrow m = \omega$$

