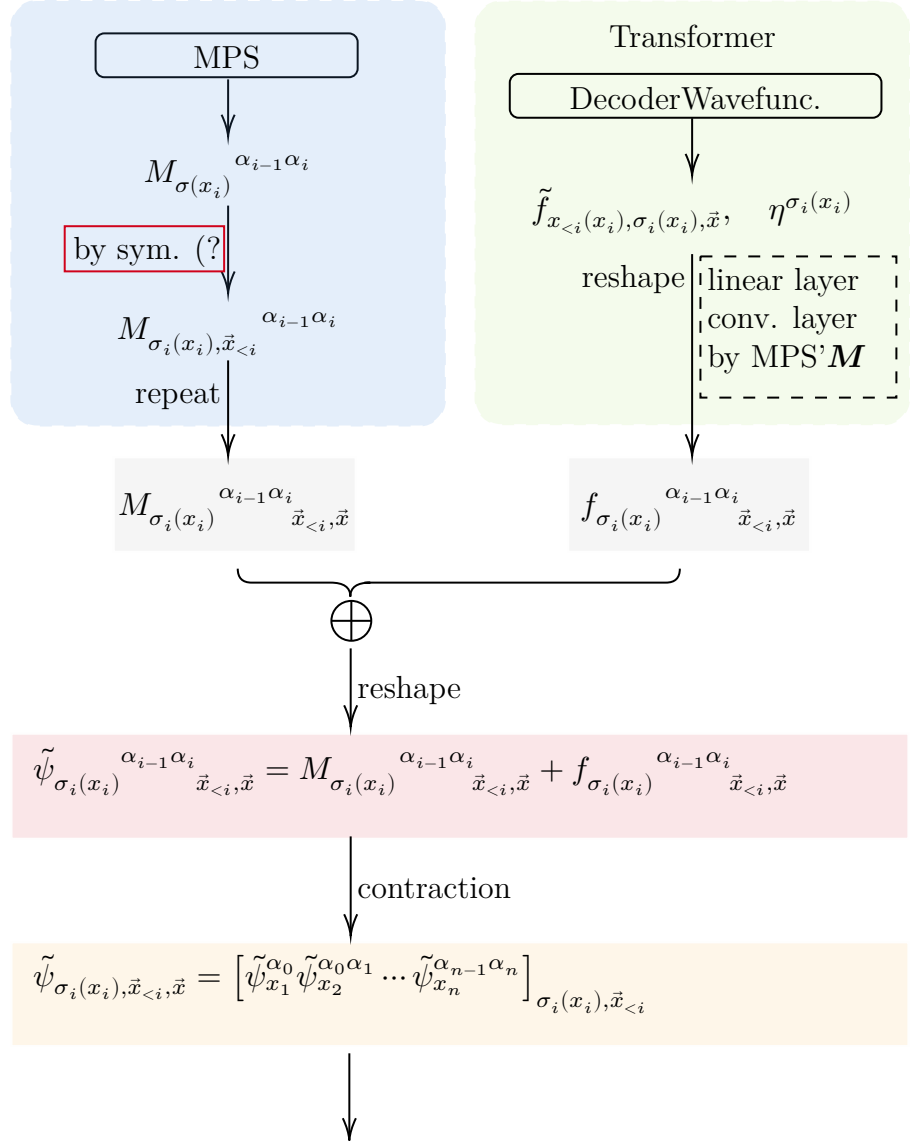
MPS
$M_{\sigma(x_i)}{}^{\alpha_{i-1}\alpha_i}$
by sym. (?
$M_{\sigma_i(x_i),\vec{x}_{<i}}{}^{\alpha_{i-1}\alpha_i}$
repeat
Transformer
DecoderWavefunc.
$\tilde{f}_{x_{<i}(x_i),\sigma_i(x_i),\vec{x}}, \quad \eta^{\sigma_i(x_i)}$
reshape
linear layer
conv. layer
by MPS' $\boldsymbol{M}$
$M_{\sigma_i(x_i)}{}^{\alpha_{i-1}\alpha_i}{}_{\vec{x}_{<i},\vec{x}}$
$f_{\sigma_i(x_i)}{}^{\alpha_{i-1}\alpha_i}{}_{\vec{x}_{<i},\vec{x}}$
reshape
$\tilde{\psi}_{\sigma_i(x_i)}{}^{\alpha_{i-1}\alpha_i}{}_{\vec{x}_{<i},\vec{x}} = M_{\sigma_i(x_i)}{}^{\alpha_{i-1}\alpha_i}{}_{\vec{x}_{<i},\vec{x}} + f_{\sigma_i(x_i)}{}^{\alpha_{i-1}\alpha_i}{}_{\vec{x}_{<i},\vec{x}}$
contraction
$\tilde{\psi}_{\sigma_i(x_i),\vec{x}_{<i},\vec{x}} = \left[\tilde{\psi}_{x_1}^{\alpha_0}\tilde{\psi}_{x_2}^{\alpha_0\alpha_1}\cdots\tilde{\psi}_{x_n}^{\alpha_{n-1}\alpha_n}\right]_{\sigma_i(x_i),\vec{x}_{<i}}$