

$$\begin{aligned}
 F_{\sigma} = f(\mathbf{x}(\sigma)) &= \begin{array}{c} \boxed{\phantom{\sigma_{11} \cdots \sigma_{N1} \sigma_{12} \cdots \sigma_{N2} \cdots \sigma_{1R} \cdots \sigma_{NR}}} \\ \sigma_{11} \quad \cdots \quad \sigma_{N1} \quad \sigma_{12} \quad \cdots \quad \sigma_{N2} \quad \cdots \quad \sigma_{1R} \quad \cdots \quad \sigma_{NR} \end{array} \\
 &= \begin{array}{c} \boxed{\phantom{\sigma_1 \sigma_2 \cdots \sigma_{\ell}}} \\ \sigma_1 \quad \sigma_2 \quad \cdots \quad \sigma_{\ell} \end{array} .
 \end{aligned}$$