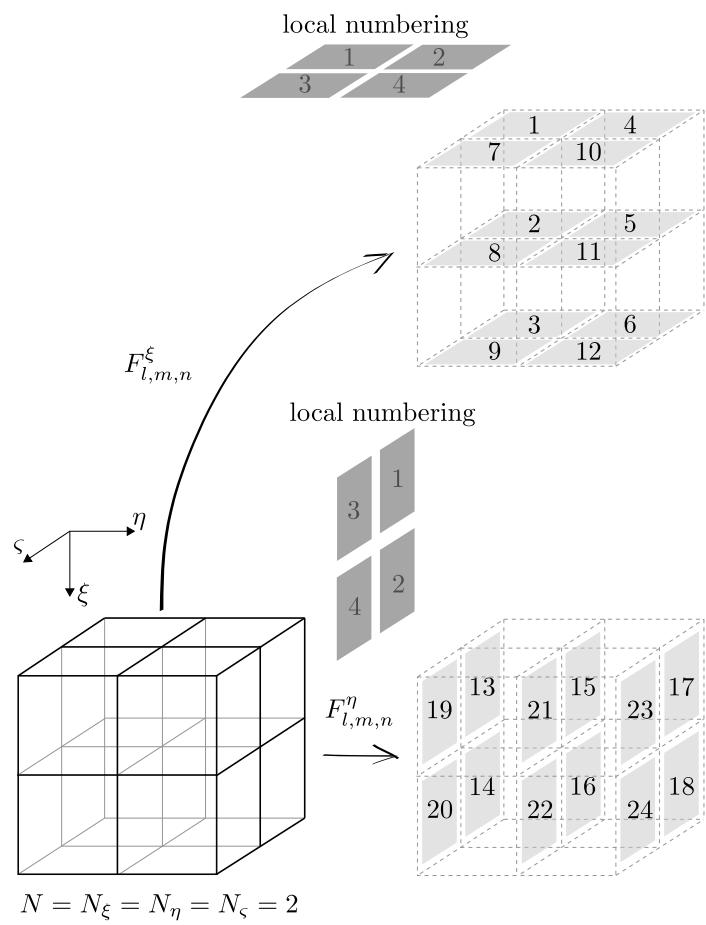


o trace matrix \mathbb{T}_F



$$T_{\xi^-} = \begin{bmatrix} 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 & 10 & 11 & \dots \\ -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \dots \\ 0 & 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \dots \\ 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 & 0 & 0 & 0 & \dots \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 & \dots \end{bmatrix}$$

$$T_{\xi^+} = \begin{bmatrix} 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 & 10 & 11 & 12 & 13 & \dots \\ 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \dots \\ 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \dots \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & \dots \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & \dots \end{bmatrix}$$

$$T_{\eta^-} = \begin{bmatrix} \dots & 12 & 13 & 14 & 15 & 16 & 17 & 18 & 19 & 20 & 21 & \dots \\ \dots & 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \dots \\ \dots & 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \dots \\ \dots & 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 & 0 & 0 & \dots \\ \dots & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -1 & 0 & 0 & \dots \end{bmatrix}$$

$$T_{\eta^+} = \begin{bmatrix} \dots & 16 & 17 & 18 & 19 & 20 & 21 & 22 & 23 & 24 & 25 & \dots \\ \dots & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \dots \\ \dots & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \dots \\ \dots & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & \dots \\ \dots & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & \dots \end{bmatrix}$$

$$T_{\zeta^-} = \begin{bmatrix} \dots & 23 & 24 & 25 & 26 & 27 & 28 & 29 & 30 & \dots \\ \dots & 0 & 0 & -1 & 0 & 0 & 0 & 0 & 0 & \dots \\ \dots & 0 & 0 & 0 & -1 & 0 & 0 & 0 & 0 & \dots \\ \dots & 0 & 0 & 0 & 0 & -1 & 0 & 0 & 0 & \dots \\ \dots & 0 & 0 & 0 & 0 & 0 & -1 & 0 & 0 & \dots \end{bmatrix}$$

$$T_{\zeta^+} = \begin{bmatrix} \dots & 31 & 32 & 33 & 34 & 35 & 36 \\ \dots & 0 & 0 & 1 & 0 & 0 & 0 \\ \dots & 0 & 0 & 0 & 1 & 0 & 0 \\ \dots & 0 & 0 & 0 & 0 & 1 & 0 \\ \dots & 0 & 0 & 0 & 0 & 0 & 1 \end{bmatrix}$$

