$$\Omega_{\text{sports}} \begin{bmatrix} 0.07 \\ 0.03 \\ 0.75 \\ 0.05 \\ 0.10 \end{bmatrix} \qquad \rho_{\text{EN} \to \text{ZH}} = \begin{bmatrix} 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 \end{bmatrix} \qquad \Omega_{\text{运动}} \begin{bmatrix} 0.75 \\ 0.05 \\ 0.10 \\ 0.07 \\ 0.03 \end{bmatrix}$$

$$\rho_{\text{ZH} \to \text{EN}} = \begin{bmatrix} 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \\ 1 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 \end{bmatrix}$$