

$$\begin{array}{c}
\textit{North} \quad \textit{East} \quad \textit{South} \quad \textit{West} \\
\textit{North} \quad \textit{East} \quad \textit{South} \quad \textit{West} \left( \begin{array}{cccc} 0 & \frac{1}{2} & 0 & \frac{1}{2} \\ \frac{1}{2} & 0 & \frac{1}{2} & 0 \\ 0 & \frac{1}{2} & 0 & \frac{1}{2} \\ \frac{1}{2} & 0 & \frac{1}{2} & 0 \end{array} \right)
\end{array}$$

$$\begin{array}{c}
\textit{North} \quad \textit{East} \quad \textit{South} \quad \textit{West} \\
\textit{North} \quad \textit{East} \quad \textit{South} \quad \textit{West} \left( \begin{array}{cccc} \frac{1}{3} & \frac{1}{3} & 0 & \frac{1}{3} \\ \frac{1}{3} & \frac{1}{3} & \frac{1}{3} & 0 \\ 0 & \frac{1}{3} & \frac{1}{3} & \frac{1}{3} \\ \frac{1}{3} & 0 & \frac{1}{3} & \frac{1}{3} \end{array} \right)
\end{array}$$