



$$\max_{P \in \mathcal{P}_n} \mathcal{S} \left(\begin{array}{c} \text{Exchangeable} \\ \begin{pmatrix} \text{Matrix 1} \\ \text{Matrix 2} \end{pmatrix} - P \begin{pmatrix} \text{Matrix 3} \\ \text{Matrix 4} \end{pmatrix} \end{array} \right) \approx \sum_{d=1}^{D=5} \mathcal{S} \left(\begin{pmatrix} \text{Column 1} \\ \text{Column 2} \end{pmatrix} - \begin{pmatrix} \text{Column 3} \\ \text{Column 4} \end{pmatrix} \right) \approx \sum_{d=1}^{D=5} \cos \left(\begin{pmatrix} \text{Column 1} \\ \text{Column 2} \end{pmatrix}, \begin{pmatrix} \text{Column 3} \\ \text{Column 4} \end{pmatrix} \right)$$