

Simulation	Signal Tensor Θ	Rank	Sign Rank	α	$ \mathcal{N} $	CDF	Noise
1	$\mathcal{C} \times \mathbf{M}_1 \times \mathbf{M}_2 \times \mathbf{M}_3$	3^3	$\leq 3^3$	∞	$\leq 3^3$	$\begin{smallmatrix} 1 \\ 0 \end{smallmatrix}$ 	Uniform $[-0.3, 0.3]$
2	$ \mathbf{a} \otimes \mathbf{1} \otimes \mathbf{1} - \mathbf{1} \otimes \mathbf{a} \otimes \mathbf{1} $	d	≤ 3	1	0	$\begin{smallmatrix} 1 \\ 0 \end{smallmatrix}$ 	Normal $\mathcal{N}(0, 0.15)$
3	$\log(0.5 + Z_{\max})$	$\geq d$	2	∞	d	$\begin{smallmatrix} 1 \\ 0 \end{smallmatrix}$ 	Uniform $[-0.1, 0.1]$
4	$2.5 - \exp(\mathcal{Z}_{\min}^{1/3})$	$\geq d$	2	∞	d	$\begin{smallmatrix} 1 \\ 0 \end{smallmatrix}$ 	Normal $\mathcal{N}(0, 0.15)$