Optimization using adjoint on $\mathbf{k} \mapsto J(\mathbf{k}, \mathbb{E}[\mathbf{U}])$, $\dim \mathcal{K}=4$

Legend:
- $\mathbf{k}_{\text{ref}}$
- optimization result, no uncertainties
- optimization result, AmPm
- optimization result, AmPp
- optimization result, ApPm
- optimization result, ApPp