Profiles $\mathbf{u} \mapsto J(\mathbf{k}, \mathbf{u})$ for different values of $\mathbf{k}$

Legend:
- $\mathbf{u} \mapsto J(\mathbf{k}_{\mathrm{var}}, \mathbf{u})$
- $\mathbf{u} \mapsto J(\mathbf{k}_{\mathrm{mean}}, \mathbf{u})$
- $\mathbf{u} \mapsto J(\mathbf{k}_1, \mathbf{u})$
- $\mathbf{k}$ of maximal ratio
- $J^*(\mathbf{u})$
- $\alpha_1 \cdot J^*(\mathbf{u})$
- $J(\mathbf{k}, \mathbf{u}) < J^*(\mathbf{u})$