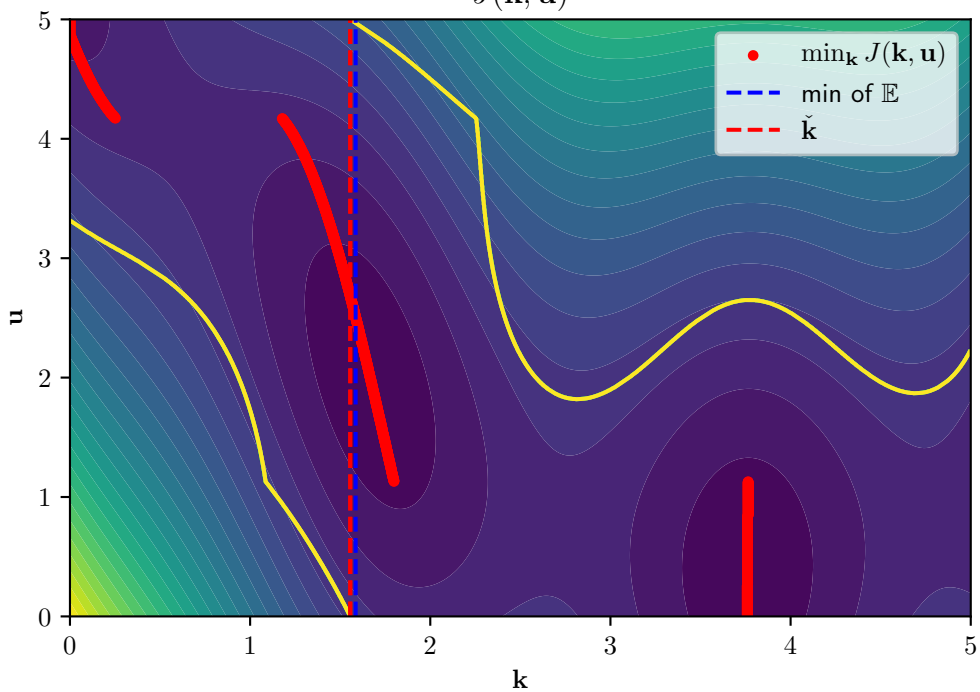


$$J(\mathbf{k}, \mathbf{u})$$



$$R_{\alpha}(\mathbf{k}) = \mathbb{P}_U[J(\mathbf{k}, \mathbf{U}) \leq \check{\alpha} \min_{\tilde{\mathbf{k}}} J(\tilde{\mathbf{k}}, \mathbf{U})], \quad \alpha = 1.9497$$

