

In practical applications a is naturally assumed to be piecewise constant over the fine mesh (e.g., of constant value in each triangle or square of \mathcal{T}_h) and one purpose of the algorithm is the fast resolution of the linear system (5.3) up to accuracy $\epsilon \in (0, 1)$.

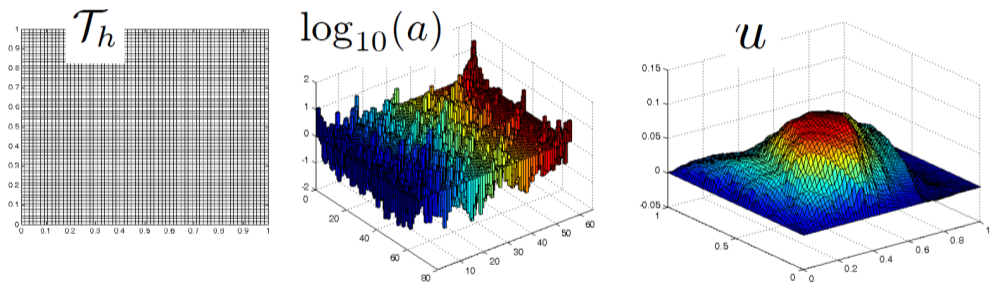


Fig. 2 *The (fine) mesh \mathcal{T}_h , a (in \log_{10} scale), and u .*