Introduction to FEniCS TF4062

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This document is based on FEniCS tutorial volume 1.

1 Poisson equation

Consider the following boundary value problem:

$$-\nabla^2 u(\mathbf{x}) = f(\mathbf{x}) \tag{1}$$

$$u(\mathbf{x}) = u_{\mathsf{D}}(\mathbf{x}) \tag{2}$$