

PytHHOn3D documentation

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1 Introduction

The PytHHOn3D library is a

2 Formal setting

Let Ω a domain in \mathbb{R}^d with Lipschitz boundaries. Let $H^1(\Omega; \mathbb{R}^d) = \{\mathbf{u} \in L^2(\Omega; \mathbb{R}^d), \nabla \mathbf{u} \in L^2(\Omega; \mathbb{R}^d)\}$ the usual functional space on Ω . Let \mathcal{T}_h a mesh of Ω and $H^1(\mathcal{T}_h; \mathbb{R}^d) = \{\mathbf{u} \in L^2(\Omega; \mathbb{R}^d), \forall T \in \mathcal{T}_h, \mathbf{u}|_T \in H^1(T; \mathbb{R}^d)\}$ the usual functional space on \mathcal{T}_h

One dimensional problem

References