

This file is to clarify two typos and one inaccurate statement in the published paper: *A local-structure-preserving local discontinuous Galerkin method for the Laplace equation*. The theoretical and numerical results in the paper are NOT affected by the correction.

1. In the last item of Remark 2.1:

Original text: *In the numerical experiments, we take C_{12} to be along the (pre-chosen) direction of the normal vector of each edge with the modulus $1/2$. By doing so, if $C_{11} = 0$ in (2.8)-(2.11),*

Corrected: *In the numerical experiments, we take C_{12} such that when $C_{11} = 0$ in (2.8)-(2.11),*

2. In the last sentence of Corollary 3.3

Original text: $\|\mathbf{p} \cdot \mathbf{n}\|_{0,\partial K} \leq C(h_K^{-1}\|\mathbf{p}\|_{0,K}^2 + \|\nabla \cdot \mathbf{p}\|_{0,K}^2)^{1/2}$ lead to (3.10).

Corrected text: $\|\mathbf{p} \cdot \mathbf{n}\|_{0,\partial K} \leq C(h_K^{-1}\|\mathbf{p}\|_{0,K}^2 + h_K\|\nabla \cdot \mathbf{p}\|_{0,K}^2)^{1/2}$ lead to (3.10).

3. Regarding the definition of the jump of a piecewise smooth function

Original test:

$$[[u]] := (u^+ \mathbf{n}^+ + u^- \mathbf{n}^-)/2, \quad [[\mathbf{q}]] := (\mathbf{q}^+ \cdot \mathbf{n}^+ + \mathbf{q}^- \cdot \mathbf{n}^-)/2$$

Corrected test:

$$[[u]] := u^+ \mathbf{n}^+ + u^- \mathbf{n}^-, \quad [[\mathbf{q}]] := \mathbf{q}^+ \cdot \mathbf{n}^+ + \mathbf{q}^- \cdot \mathbf{n}^-$$