

## Erratum

### On the Multi-Level Splitting of Finite Element Spaces

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On page 398 two different norms are denoted in the same way making Theorem 4.1 to a tautology.

Formula (4.9) should read as follows:

$$\| \|u\| \|^2 = \|I_0 u\|^2 + |u|^2, \quad u \in \mathcal{S}_j \cap H(\Omega). \quad (4.9)$$

With this notation the correct version of Theorem 4.1 is:

**Theorem 4.1.** *There exist positive constants  $K_1$  and  $K_2$ , which are independent of the number  $j$  of refinement levels, with*

$$\frac{K_1}{(j+1)^2} \| \|u\| \|^2 \leq \|u\|^2 \leq K_2 \| \|u\| \|^2$$

for all functions  $u \in \mathcal{S}_j \cap H(\Omega)$ .  $K_1$  depends only on the constants  $M$  and  $\delta$  in (4.2) and (4.3) respectively, on a lower bound for the interior angles of the triangles in the final triangulation and possibly on the diameter of the domain  $\Omega$ . For a nonuniformly refined family of nested triangulations as described in Sect. 3  $K_2$  depends in addition on the constants  $\alpha$  and  $q$  from (3.12).