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Local a posteriori estimates on a nonconvex polygonal domain

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Keywords: Nonconvex polygonal domain; Second order elliptic problems; Local a posteriori estimates

Review text:

The authors consider finite element method to approximate second order elliptic problems on a nonconvex polygonal domain. A class of a posteriori estimators is studied for the error in the maximum norm of the gradient on single elements. The present work is an extension of the previous articles on smooth domains W. Hoffmann et al., Math. Comp., 70 (2001), pp. 897–909 and A. H. Schatz and L. B. Wahlbin, Math. Comp., 73 (2004), pp. 517–523.

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