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Keywords: Convergence; Adaptive hp finite element strategy; Higher space-dimensions

Review text:

The present work generalizes the refinement strategy proposed in a previous work to problems in two and three space-dimensions and presents numerical results of the application of this refinement strategy to some representative problems.

The authors show the convergence in the energy norm for an automatic h_p -adaptive refinement strategy for finite elements on the elliptic boundary value problem.

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