English summary

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On the iterative solution of systems of linear equations in the finite element method

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Summary. The article deals with the iterative solution of systems of linear equations arising from the *h*-version of the finite element method. The most common Krylov subspace based algorithms are described and issues related to proper selection of an algorithm are discussed. Also the most popular preconditioning techniques are described. Performance of the methods is illustrated with examples.

Key words: Krylov subspace, iteration, gradient method, preconditioner, sparse matrix