

CONVERGENCE RATE OF A GENERALIZED ADDITIVE SCHWARZ ALGORITHM

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摘要

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Abstract The convergence rate of a generalized additive Schwarz algorithm for solving boundary value problems of elliptic partial differential equations is studied. A quantitative analysis of the convergence rate is given for the model Dirichlet problem. It will be shown that a greater acceleration of the algorithm can be obtained by choosing the parameter suitably. Some numerical tests are also presented in this paper.

Key words [Schwarz additive algorithm](#) [Convergence rate](#) [Dirichlet problem](#).

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