

论文

## A MUCLTI -PARAMETER SPLITTING EXTRAPOLATION AND A PARALLEL ALGORITHM

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**摘要** The finite element solutions of elliptic equations are shown to have a multiparameter asymptotic error expansion. Based on this expansion and a multi-parameter splitting extrapolation technique, a parallel algorithm for solving multi-dimensional equations with high order accuracy is introduced.

**关键词** [Finite element, multi-parameter error ex](#)

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**Abstract** The finite element solutions of elliptic equations are shown to have a multiparameter asymptotic error expansion. Based on this expansion and a multi-parameter splitting extrapolation technique, a parallel algorithm for solving multi-dimensional equations with high order accuracy is introduced.

**Key words** [Finite element](#) [multi-parameter error expansion](#) [parallel algorithm](#) [multiparameter splitting extrap](#)

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