

# CONVERGENCE OF A CONSERVATIVE DIFFERENCE SCHEME FOR THE ZAKHAROV EQUATIONS IN TWO DIMENSIONS

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摘要

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# CONVERGENCE OF A CONSERVATIVE DIFFERENCE SCHEME FOR THE ZAKHAROV EQUATIONS IN TWO DIMENSIONS

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**Abstract** A conservative difference scheme is presented for the initial-boundary-value problem of a generalized Zakharov equations. On the basis of a prior estimates in  $L_2$  norm, the convergence of the difference solution is proved in order  $O(h^2+r^2)$ . In the proof, a new skill is used to deal with the term of difference quotient  $(e_{j,k}^n)^t$ . This is necessary, since there is no estimate of  $E(x,y,t)$  in  $L_\infty$  norm.

## Key words

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