

ON REGULARIZED DIFFERENCE SCHEMA FOR ONE
QUASILINEAR PARABOLIC EQUATION

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Abstract

In the present work there is constructed regularized two-layer difference schema for one quasilinear parabolic equation with classical initial boundary conditions. Under the certain assumptions prior estimations are obtained and the convergence of solution of constructed regularized schema is investigated.

Key words and phrases: regularization, difference schema, quasilinear, parabolic equation. Weighted Sobolev space, Bending of an orthotropic cusped plate.

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