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On the higher integrability for the gradients of the solutions to difference partial differential systems of elliptic-parabolic type. (English) [Zbl 0969.35134](#)

Z. Angew. Math. Phys. 51, No. 2, 290-303 (2000).

The paper deals with higher integrability for the gradients of weak solutions of systems of quasilinear difference partial differential equations for elliptic-parabolic type. To this end the authors introduce proper assumptions on the coefficients of the equations and on the initial-boundary data and apply a procedure based on the paper of *M. Giaquinta* and *M. Struwe* [Math. Z. 179, 437-451 (1982; [Zbl 0469.35028](#))].

Reviewer: [Emil Minchev \(Sofia\)](#)

MSC:

[35R10](#) Partial functional-differential equations

[35M10](#) PDEs of mixed type

[39A10](#) Additive difference equations

Cited in **3** Documents

Keywords:

[higher integrability](#); [difference PDE](#); [elliptic-parabolic type](#)

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