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Existence of a classical solution for linear parabolic systems of nondivergence form

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Abstract: We prove the unique existence of a classical solution for a linear parabolic system of nondivergence and nondiagonal form. The key ingredient is to combine the energy estimates with Schauder estimates and to obtain a uniform boundedness of a solution.

Keywords: linear parabolic system, nondivergence, nondiagonal form, L^∞ -estimate,

Schauder estimate

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