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Life span of solutions with large initial data for a class of coupled parabolic systems. (English)

Zbl 1270.35138

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Summary: This paper deals with a class of coupled systems of parabolic equations subject to large initial data. By constructing and solving a new ODE system, we obtain the accurate life span of solutions (blow-up time) of the expression determined by the initial value.

MSC:

[35B44](#) Blow-up in context of PDEs

[35K58](#) Semilinear parabolic equations

[35K51](#) Initial-boundary value problems for second-order parabolic systems

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Keywords:

blow-up time

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