

Blow-Up Of Solutions Of A Semilinear Heat Equation With A Visco-Elastic Term

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**BIRKHAUSER VERLAG AG, NONLINEAR ELLIPTIC AND PARABOLIC PROBLEMS -
A SPECIAL TRIBUTE TO THE
WORK OF HERBERT AMANN, MICHEL CHIPOT AND JOACHIM ESCHER; pp: 351-
356; Vol: 64**

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Summary

In this work we consider an initial boundary value problem related to the equation $u_t - \Delta u + \int_0^t g(t-s)\Delta u(x,s)ds = |u|^{p-2}u$ and prove, under suitable conditions on g and p , a blow-up result for solutions with negative or vanishing initial energy. This result improves an earlier one by the author.

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