

G. A. Philippin and V. Proytcheva, **Some remarks on the asymptotic behaviour of the solutions of a class of parabolic problems**, *Math. Meth. Appl. Sci.*, 29 (2006), 297–307.

Abstract

This paper deals with a class of semilinear parabolic problems. We establish sufficient conditions on the data forcing the solution to blow up at finite time τ and derive an upper bound for τ . Moreover, we show that if the problem is modified in some way, the solution decays exponentially in time and depends continuously on the data.