

**Stiepanova, K.**

**Semi-classical analysis for proof extinction-property in finite time of solutions for parabolic equations with homogeneous main part and degenerate absorption potential.** (English)

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Summary: We study the behaviour of solutions of parabolic equations with double nonlinearity and a degenerate absorption term. The main topic of interest is the property of finite time extinction, i.e., the solution vanishes after finite time.

**MSC:**

35A25 Other special methods applied to PDEs

35B40 Asymptotic behavior of solutions to PDEs

**Keywords:**

degenerate nonlinear parabolic equation; diffusion-absorption; extinction-property of solutions; semi-classical analysis