Y-shaped Graph and time entire solutions of
a semilinear parabolic equation

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Abstract

The Y-shaped Graph is defined by connecting three half lines Ω_0, Ω_1, Ω_2 at the common end point O. We consider a semilinear parabolic equation

$$\frac{\partial u}{\partial t} = L[u] + f(u)$$

in this graph. The purpose of this study is to consider the asymptotic behavior of the initial value problem and existence of time entire solutions.

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