

Bebernes, J.; Troy, W.

Nonexistence for the Kassoy problem. (English) Zbl 0645.34008
SIAM J. Math. Anal. 18, 1157-1162 (1987).

The authors prove that the Kassoy problem

$$y'' - \frac{x}{2}y' + e^y - 1 = 0, \quad y(0) = \alpha, \quad y'(0) = 0, \quad \alpha \in R,$$

has no solution which has the asymptotic property $y(x) \sim -2\ell nx + k$ as $x \rightarrow \infty$.

Reviewer: [N.L.Maria](#)

MSC:

[34A34](#) Nonlinear ordinary differential equations and systems

Cited in **12** Documents

Keywords:

combustion; supercritical; final time asymptotic analysis; Kassoy problem

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