

# Threshold solutions of a semilinear parabolic equation

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If  $p > 1 + 2/n$  then the nonlinear heat equation  $u_t - \Delta u = u^p$ ,  $x \in \mathbb{R}^n$ ,  $t > 0$ , possesses both positive global solutions and positive solutions which blow up in finite time. We are interested in the large-time behavior of radial positive solutions lying on the borderline between global existence and blow-up.