

1019-35-165

Peter Polacik* (polacik@math.umn.edu), School of Mathematics, University of Minnesota, Minneapolis, MN 55346. *Asymptotic behavior of solutions of parabolic equations via Liouville theorems.*

We shall discuss several results on the asymptotic behavior of solutions of parabolic equations that were proved using parabolic Liouville-type theorems. Some new Liouville theorems (nonexistence of nontrivial solutions defined for all times) will be presented as well. (Received August 14, 2006)