Bounds of Sobolev norm for solutions of semilinear parabolic equations with critical Sobolev exponent

Michinori Ishiwata (Osaka University, Toyonaka)

Abstract. In this talk, we summarize the known facts for the bounds of the Sobolev norm for solutions of semilinear parabolic problems with critical Sobolev exponent and try to apply the idea of profile-decomposition to obtain some information about the asymptotics of the Sobolev norm of solutions.