

Dimension control of the blow-up set for parabolic and elliptic equations

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We show a capacity estimate for the blow-up set for solutions to the parabolic equation. It refines the Lebesgue measure estimate previously obtained with S. Sakaguchi, includes the result on the elliptic case, and provides a general information on the profile of any post-blow-up solution. In particular, we can show the dimension control of the blowup set of the family of solutions to elliptic equations. This is the joint work with F. Takahashi.