

Global unbounded solutions and other constructions for semilinear heat equations

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We shall discuss joint results with Eiji Yanagida concerning global solutions of semilinear heat equations. In one of them, existence of global unbounded solutions is established for the Fujita equation in the intermediate range. The other result shows the existence of bounded and localized solutions which are not quasiconvergent. Both constructions depend on properties of solutions on the threshold of blowup.