

Existence of blow-up solutions to a chemotaxis system with logistic term

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In the study of chemotaxis-growth systems, existence of blow-up solutions is known to be a challenging problem. In the previous results, the results on existence of blow-up solution are only for some simplified problem, and there do not seem to be any results concerning fully parabolic systems. The purpose of this work is to show existence of blow-up solutions and their properties. This is a joint work with Dr. Mario Fuest (Leibniz University Hannover) and Prof. Johannes Lankeit (Leibniz University Hannover).