

ON A CLASS OF NON-LINEAR EVOLUTION GINZBURG-LANDAU-SCHODINGER TYPE EQUATION

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ABSTRACT. Investigation of the blow-up solutions of the problem in *a* finite time of the First mixed value problem with the homogeneous boundary condition on a Bounded domain of n -dimensional Euclidean space for a class of the non-linear Ginzburq-Landau-Schodinger evolution equation is continued. Some sufficient conditions have been obtained for a wide class of initial data under which collapse happens for the given values of parameters.

Key words: Initial-boundary value problem, nonlinear evolution equation, Ginzburq-Landau-Schrodinger evolution equation, existence, nonexistence, blow-up, collapse.