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Laihan Luo* (lluo@nyit.edu), 1855 Broadway, New York, NY 10023. *Well Known Equations and Not Well Known Behavior of Solutions*. Preliminary report.

The main subject of the proposal is to study the long time behavior of solutions of initial-value problems for some well known partial differential equations. The Heat equation, the generalized Burgers equations, The generalized Korteweg-de Vries-Burgers (GKdV-B) equation, the generalized regularized long wave-Burgers (GRLW-B) equation, and the generalized Benjamin-Ono-Burgers equation are the examples of the partial differential equations. (Received September 02, 2011)