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**Kai Yang\*** (yangk@fiu.edu). *Blow-up dynamics for the nonlinear Schrödinger-type equations.*

We study the stable blow-up solutions for the nonlinear Schrödinger-type equations—the NLS equations as well as the generalized Hartree equations (the NLS with non-local potential). The  $L^2$ -critical and  $L^2$ -supercritical cases are considered for both equations. The "log-log" blow-up dynamics occurs in the  $L^2$ -critical case for both equations. Also, we showed the existence, numerically found the stable blow-up profile solutions and the blow-up rate for the  $L^2$ -supercritical cases. (Received September 10, 2019)