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Shijun Zheng* (szheng@georgiasouthern.edu), Department of Mathematical Sciences, Georgia Southern University, Statesboro, GA 30460. *Orbital Stability of Standing Waves for Dispersive Models with Nonlocal Nonlinearity*. Preliminary report.

We consider orbital stability for several dispersive type PDEs including the nonlinear fractional Schrödinger equation with singular and unbounded potentials. We show in some cases the instability by constructing counterexamples. This reports our recent joint works with Shihui Zhu, Nyla Basharat, Hichem Hajaiej and Yi Hu. (Received September 20, 2016)