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Joseph Conlon and **Michael Dabkowski*** (mgdabkow@umich.edu), 2074 East Hall, 530 Church Street, Ann Arbor, MI 48109, and **Jingchen Wu**. *Asymptotic Stability of the Diffusive Carr-Penrose Model*. Preliminary report.

Carr and Penrose introduced a simplified model of the Lifschitz-Slyozov-Wagner model for which can be thought of as a mean field approximation for the evolution of particle clusters of various volumes. We will present the various models, describe the relevant quantities, and give examples of self similar solutions. Finally, we will introduce a diffusive version of the Carr-Penrose equations and show that the typical cluster volume of the particle clusters grows linearly in time. (Received September 15, 2014)