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Satoshi Masaki* (masaki@sigmath.es.osaka-u.ac.jp), 1-3 Machikaneyamacho, Toyonaka, Osaka 560-8531. *A minimization problem on non-scattering solutions to mass-subcritical nonlinear Schrodinger equation.*

We consider global behavior of solutions to the nonlinear Schrodinger equation. In particular, we are interested in threshold phenomena between scattering solutions around the zero and solutions with other type of behavior. In the last decade, there is much progress on this kind of problem. One motivation for this is a development in concentration compactness type technique associated with Strichartz estimates. In this talk, we consider mass-subcritical equations. In this case, the well-known conservation laws are not effective on the classification of behavior. So, we introduce minimization problems on non-scattering solutions to find a threshold solution. (Received January 16, 2019)