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Zaher Hani* (hani@cims.nyu.edu), 251 Mercer Street, New York, NY 10012. *Out-of-equilibrium dynamics for the nonlinear Schrodinger equation*. Preliminary report.

I will discuss some recent progress on results related to the out-of-equilibrium dynamics of nonlinear Schrodinger equations on compact and partially compact domains (like cylinders and wave-guide manifolds). I will focus on the phenomenon of energy cascade in which the energy moves its concentration zones from low to high frequencies (direct cascade). Part of this is joint work with B. Pausader, N. Tzvetkov, and N. Visciglia. (Received September 05, 2013)