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**M Grillakis** and **M Machedon\*** ([mxm@math.umd.edu](mailto:mxm@math.umd.edu)), Department of Mathematics, University of Maryland, College Park, MD 20742. *Title: On the pair excitation function.*

We will review the history of the rigorous theory of the pair excitation function approximating the evolution of a coherent state, and describe the most recent results of M. Grillakis and M. Machedon for a Hamiltonian with two body interaction potential  $N^{3\beta-1}v(N^{\beta(x-y)})$ , with  $\beta < 2/3$ . (Received September 06, 2017)