1061-35-100 S Nonnenmacher, J Sjöstrand and M Zworski^{*} (zworski@math.berkeley.edu). From open quantum systems to open quantum maps.

We show that for a class of open quantum systems satisfying a natural dynamical assumption the study of the resolvent, and hence of scattering, and of resonances, can be reduced to the study of open quantum maps, that is of finite dimensional quantizations of canonical relations obtained by truncation of symplectomorphisms. (Received April 09, 2010)