

# Titel: Some recent results on growth of Sobolev norms for time dependent Schrödinger evolutions

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Abstract:

When a time independent Schrödinger Hamiltonian  $H_0$  is perturbed by a time dependent potential  $V(t)$  the modes of  $H_0$  are not preserved by the evolution generated by the quantum Hamiltonian  $H_0 + V(t)$  and exchange of energies may occur. We shall present a general approach connecting spectral properties of  $H_0$ , the size and the oscillations in time of the perturbation  $V(t)$ .