Duc Viet Vu
Title: Asymptotic number of scattering resonances for generic Schr√ ∂ dinger operators

Abstract: Let -Œî+V be the Schrodinger operator acting on $L^2(R^d;C)$ with d,â•3 odd. Here V is a bounded real or complex function vanishing outside the closed ball of center 0 and of radius a. Let $n_V(r)$ denote the number of resonances of -Œî+V with modulus less than r. We show that if the potential V is generic in a sense of pluripotential theory, then

$$n_V(r)=c_d a^d r^d+O(r^{d-3/16+\ldotsõ})$$

as r,Äî> ,àû for any …õ>0, where c_d is a dimensional constant.