

On Jensen-type inequalities for unbounded radial scattering solutions of barely supercritical Schrödinger equations

Tristan Roy (Nagoya University)

In this talk I will focus on the asymptotic behavior of unbounded radial solutions of semilinear Schrödinger equations with a barely supercritical nonlinearity (i.e a nonlinearity that grows faster than the critical power but not faster than a logarithm). It is known that we have scattering of bounded radial solutions of defocusing loglog energy-supercritical Schrödinger equations. I will recall the techniques used to prove this result. Then I will explain how we can use Jensen-type inequalities to prove scattering of unbounded radial solutions of defocusing loglog energy-supercritical Schrödinger equations and unbounded radial solutions below ground state of focusing size-dependent log energy-supercritical Schrödinger equations.