

Global well-posedness and scattering results for nonlinear wave equations

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In this talk, we will discuss the long-time behavior of large solutions to nonlinear wave equations in the energy-supercritical setting. We will begin with a brief review of the concentration compactness and rigidity arguments through the seminal works of Kenig-Merle and Duyckaerts-Kenig-Merle for the energy-critical and energy-supercritical problems in three dimensions. We will then discuss the generalization of these methods to higher odd dimensions and even dimensions.

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