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Global existence and scattering for rough solutions of 3d NLS

This talk will describe a new result establishing global existence and scattering of solutions for the cubic defocusing nonlinear Schrodinger equation in three space dimensions. The main ingredient is a new Morawetz-type inequality which provides a global spacetime L^4 bound. This talk concerns joint work with Keel, Staffilani, Takaoka and Tao.