

SOME RECENT DEVELOPMENTS IN NONLINEAR DISPERSIVE
EQUATIONS

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Abstract

In these lectures I will describe the concentration-compactness/rigidity method for critical evolution problems, which I have been developing with Frank Merle. The concrete examples that I will focus on are the energy critical, focusing nonlinear Schrodinger and non linear wave equations, but other examples may also be discussed. The issues adressed are global existence and scattering.