

MA T H E M A T I C A L P H Y S I C S S E M I N A R

Rutgers University
Hill Center - Room 705

Large data dynamics for nonlinear dispersive PDEs

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Abstract

We will discuss recent work on wave evolutions for large data. Particular emphasis will be placed on concentration compactness ideas. Amongst others, we will describe a result for wave equations from R^3 minus the unit ball into the sphere S^3 where we can show that any solution approaches the unique harmonic map in its degree class. Joint work with Cote, Kenig, Lawrie, Nakanishi - in various combinations.