



THE UNIVERSITY
of NORTH CAROLINA
at CHAPEL HILL

Brauer Lectures

February 6, 2023

4:30 - 5:30 p.m.

PH 215

Asymptotic simplification for solutions of nonlinear wave equations

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Abstract. In this lecture I will describe the progress made in the last 14 years, in our understanding of the long-time behavior of large solutions to the energy critical focusing nonlinear wave equation. In the last part of the talk I will concentrate on progress (with Duyckaerts and Merle) on the asymptotic simplification for large time, into sums of modulated static solutions plus a linear term, in all odd dimensions, in the radial case.