



THE UNIVERSITY  
*of* NORTH CAROLINA  
at CHAPEL HILL

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## Brauer Lectures

February 8, 2023

3:30 - 4:30 p.m.

PH 332

### **New channels of energy for wave equations, new non-radiative solutions and soliton resolution**

Dr. Carlos E. Kenig  
University of Chicago

**Abstract.** We will discuss the role of non-radiative solutions to nonlinear wave equations, in connection with soliton resolution. Using new channels of energy estimates we characterize all radial non-radiative solutions for a general class of nonlinear wave equations. This is joint work with C.Collot, T. Duyckaerts and F. Merle.