

## Departmental Colloquium

### *Soliton Resolution for nonlinear wave equations*

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**Abstract:** We will describe some recent works on the soliton resolution conjecture, for nonlinear wave equations. The soliton resolution conjecture, in this setting states that a general solution, asymptotically in time, decomposes as a finite sum of modulated solitons and radiation. In our recent works (with Duyckaerts and Merle, and with Lawrie, Liu and Schlag) we have proven this for the energy critical wave equation in the radial case, in 3d, and for equivariant exterior wave maps, also in 3d.

Friday, April 17 at 3:00 PM in SEO 636