

UC Berkeley

Analysis and PDE Seminar

A Centre-Stable Manifold for the Energy-Critical Wave
Equation in \mathbb{R}^3 in the Symmetric Setting

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Consider the focusing semilinear wave equation in \mathbb{R}^3 with energy-critical non-linearity. This equation admits stationary solutions called solitons. Restricting ourselves to the space of symmetric solutions, we find a local centre-stable manifold, in a neighborhood of the solitons for this equation in a weighted Sobolev space.

Monday, September 22
4:10–5pm, 740 Evans Hall