Consider the focusing semilinear wave equation in \( \mathbb{R}^3 \) with energy-critical nonlinearity. 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