ALMUT BURCHARD, University of Toronto, Department of Mathematics, 40 St. George Street, Toronto, ON M5S 2E4 *Solitary waves on an elastic curve*

I will discuss the stability of solitary waves on an infinite elastic curve moving in three-dimensional space. While slow-moving waves are unstable, higher wave speeds stabilize the solitary wave; I will try to explain the mechanism.

This is joint work with Erin Valenti.