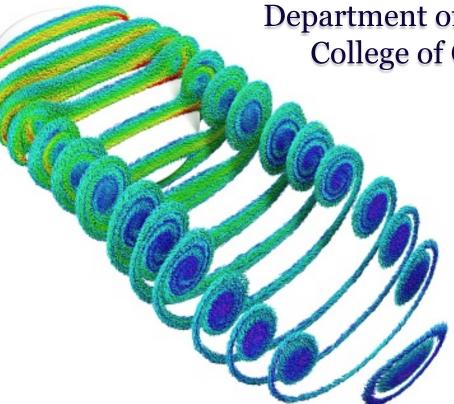
## UCCS MATH COLLOQUIUM LECTURE

Dr. Annalisa Calini, Department of Mathematics College of Charleston





Integrable Curve Flows: the solitary travels of a vortex filament

The Vortex Filament Equation, describing the self-induced motion of a vortex filament in an ideal fluid, is a simple but important example of integrable curve dynamics. Its connection with the cubing focusing Nonlinear Schrodinger equation through the well-known Hasimoto map allows the use of many of the tools of soliton theory to study properties of its solutions. I will discuss the construction of knotted solutions, their dynamics, and their stability properties.

Thursday, October 2, 2014
12:30-1:30pm
(refreshments at 12:15pm)
UC 116A

http://www.uccs.edu/math/math-events/colloquium-series.html