Speaker's Bio:

twisting.

Wei Zhu is currently a postdoctoral researcher at the Courant Institute of Mathematical Sciences at NYU. He received his Ph.D. from UCLA, 2004. Zhu's research interests include: numerical analysis and scientific computing; mathematical modeling and simulation on active materials; image processing; visual neuroscience, computational biology; and partial differential equations and variational methods.

lead to huge deformations. Many experimental or theoretical results on the equilibrium properties have been obtained. However, the dynamics of how liquid crystal elastomers evolve subject to external stimuli is not fully understood. In this talk, I will first discuss how a continuum model was developed to characterize the dynamics of LCEs. Secondly, I will detail the numerical implementations by applying the Chebyshev polynomial scheme for the induced evolution equations. I will then present some numerical results, which demonstrate that our proposed model can successfully capture many phenomena observed in real experiments, such as LCE sample buckling,

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