

College of Arts and Sciences  
**Department of Mathematics**  
University of South Carolina

# Math Colloquium

## *Energetic Variational Approaches in General Diffusion for Charged Particles*

Chun Liu, Pennsylvania State University



**Thursday**  
March 31

4:30-5:30 PM  
LeConte 412

The transport and distribution of charged particles in electrolyte solutions are crucial for many physical and biological processes. In this talk, we will go over the conventional models of these problems. We will then employ an energetic variational approach in deriving the governing systems for the general diffusion in non-ideal solutions.