

Department of Applied and Computational Mathematics and Statistics Colloquium

Irene Gamba

Department of Mathematics
University of Texas at Austin


will give a lecture entitled:

Analytical and computational issues for models of interacting particle systems

Abstract

Stochastic and statistical evolution models of birth-death processes share a common framework that extend to applications ranging from conservative or non-conservative kinetic descriptions systems in gas dynamics, plasmas, aggregation processes, as well as recent models in social dynamics.

We will show how this common framework provides an analytical path to understand the structure of solutions to these models and indicates new approximating and computational approaches alternative to Monte-Carlo methods.



**Thursday, November 7, 2013
4:00 p.m. to 5:00 p.m.
127 Hayes-Healy Center**

Colloquium Tea

3:30 p.m. to 4:00 p.m. 154 Hurley Hall