The Department of Mathematical Sciences presents a colloquium with

Professor Changyou Wang
Purdue University

Thursday, November 13, 2014
3:35 – 4:35 pm
Room 135 WCharlton Hall

Recent progress on hydrodynamic flow of nematic liquid crystals

Liquid crystal materials have played important roles in model displace devices, provided challenging issues for mathematical analysis, modeling, and computations. The most fundamental mathematical model equation is derived by Ericksen and Leslie back in the 1960's, whose equilibrium states were the classical Oseen-Frank theory. In this talk, I will report some analytic results on Ericksen and Leslie equations, including the existence and unique and regularity issues.

This is based on joint works with several collaborators F.H. Lin, J. Y. Lin, T. Huang, and J. Hineman.

wang2482@purdue.edu

Refreshments will be served 2:45 – 3:15 pm in the Faculty & Graduate Student Lounge Room 4118 French Hall West