





THE FIELDS INSTITUTE FOR RESEARCH IN MATHEMATICAL SCIENCES

SEMINAR SERIES ON CONTROL THEORY

SPEAKER:

RON PERLINE Drexel

On the Topic:

"Elastic Curves, 3D Filaments and the Hasimoto Transformation"

The prupose of this talk is to discuss a certain variational problem (elastic energy for curves), two dynamical problems, (the 3D filament equation and the cubic Schrodinger equation), and the rleations between them. The crucial transformation, due to Hasimoto, will be interpreted in the context of Poisson geometry.

Thursday, April 30, 1992 at 3:30pm, room 3018

at

The Fields Institute

(Uni-Park 3, 185 Columbia Street West, Waterloo)