



McMaster University



University of Toronto



University of Waterloo

THE FIELDS INSTITUTE FOR RESEARCH IN MATHEMATICAL SCIENCES

GEOMETRIC MECHANICS SEMINARS

SPEAKER:

WILLEM SLUIS
The Fields Institute

On the Topic:

"Natural Curves in Classical Geometries"

A natural curve is one that satisfies a given relationship between its invariants, like e.g. curvature and torsion for curves in \mathbb{R}^3 . Using the Frenet frame setting, natural curves may be described by Linear Pfaffian Systems. The question of absolute equivalence and its interpretation arises and its solution provided by E. Cartan in 1914 is presented.

Tuesday, March 2, 1993

3:30 pm, room 3018

at

The Fields Institute