

Thesis Seminar

Speaker

**Ms. Lada Atamanchuk-Amhel,
Memorial University**

**Thursday, March 14, 2019
1pm, HH-3017**

Conservation laws of one-dimensional shallow water equations

Abstract:

In this talk I will introduce the method of characteristics for finding conservation laws of systems of differential equations. This method was presented in the works of Peter Olver and further developed by George Bluman and Stephen Anco, with computational considerations discussed by Thomas Wolf. I will illustrate this method by computing several conservation laws of the Prandtl equations and one-dimensional shallow water equations.