Graduate Seminar

Speaker:

**Michael Slawinski
Memorial University**

Thursday, February 20

1:00 p.m., HH-3017

On implications of tensor-algebra properties in quantitative seismology

Abstract:

Many mathematical analogies for properties of physical objects are expressed by tensors, which allow us to state physical laws in a concise and insightful manner. In electromagnetism, the electromagnetic tensor is a mathematical analogy for the corresponding field. In continuum mechanics, an elasticity tensor defines a so-called Hookean solid. In this seminar, we will discuss such properties as symmetries of tensors, averaging of tensors, etc., as well as their limitations as analogies of physical objects.