



PIMS / AMI Seminar

Friday, February 27, 2015

3:00 p.m.

CAB 657

“Hamel’s Formalism for Infinite-Dimensional Mechanical Systems”

**Dmitry Zenkov
Department of Mathematics
North Carolina State University**

Abstract

Separating the configuration and velocity measurements was pioneered by Euler in 1750s in his study of the dynamics of rigid body and fluid. This use of ‘nonmaterial velocity’ influenced greatly the development of mechanics. In 1904, Hamel extended this formalism from the rigid body setting to arbitrary finite-dimensional mechanics. This talk will review recent development of Hamel’s ideas in relation to continuum mechanics.

Refreshments will be served in CAB 649 at 2:30 p.m.