

**Dr. Leandro Lichtenfelz - Wake Forest University.**

**Title: Singularities of the Riemannian Exponential Map**

**Abstract:**

I will discuss several results about the conjugate locus on the group of volume-preserving diffeomorphisms of a compact Riemannian manifold equipped with the  $L^2$  metric, motivated by Arnold's geometric approach to hydrodynamics.