Title: Well-posedness for incompressible Navier-Stokes Equations

Abstract: This talk is meant to be an introduction to the incompressible Navier-Stokes and Euler equations. We will discuss some results that were presented at an MSRI summer school this July. This includes some classical existence and smoothness results in Homogeneous Sobolev Spaces, the asymptotic decay of Leray weak solutions and, if time permits, Large Lagrangian Deformation.