



Speaker: Alex Himonas
University of Notre Dame

Tuesday, August 31, 2010
11:00 AM
258 Hurley Hall

Title: "The initial value problem for CH and the Euler equations"

Abstract:

We shall discuss the Cauchy problems for the Camassa-Holm (CH) and the Euler equations. More precisely, we shall prove that the data-to-solution map for these equations is not uniformly continuous in Sobolev spaces for any exponent greater than the well-posedness index. Considering the fact that these equations are well-posed with continuous dependence on initial data, our results make this dependence optimal. This talk is based on work with Carlos Kenig and Gerard Misiolek.