

Alex Himonas: *“Continuity properties of the data-to-solution map for the 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 recent work with Carlos Kenig and Gerard Misiolek.