

University of Notre Dame Department of Mathematics

PDE, COMPLEX ANALYSIS AND DIFFERENTIAL GEOMETRY SEMINAR

Andrew N W Hone

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Will give a lecture entitled:

Peakonomics: peaked solitons and the financial crisis

On

Wednesday, March 30, 2011

At

4:00 PM

In

258 Hurley Hall

Abstract

In this lecture I consider a model of spatial pattern formation in economics introduced by the Nobel economist Paul Krugman. Surprisingly, it turns out that the same mathematics that is required to understand the Camassa-Holm equation and other peakon equations is precisely what is necessary to predict the long-term behaviour of Krugman's model. It turns out that this is not quite the behaviour that Krugman himself originally desired from the model.