



CLAREMONT CENTER
for MATHEMATICAL SCIENCES

CCMS COLLOQUIUM

THE IVP FOR THE k -GENERALIZED KORTEWEG-DE VRIES
EQUATION

by

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Abstract: We shall discuss several results describing special properties of the solution to the IVP associated with the so called k -generalized Korteweg-de Vries equation

$$\partial_t u + \partial_x^3 u + u^k \partial_x u = 0, \quad k = 1, 2, 3, \dots$$

We shall be mainly concerned with the results depending on the values of the parameter k . These include local well-posedness, integrability, elastic behavior of the soliton solution, stability of solutions and unique continuation.

Wednesday, November 14, at 4:15pm

Millikan 134, Pomona College

Refreshments at 3:45 p.m. in Harry's Room (Millikan 209) & wine and cheese after the talk in Harry's Room
(Millikan 209)

*The dinner will be hosted by Prof. Adolfo Rumbos.
Please contact Prof. Rumbos if you are interested in attending the dinner*