MATHEMATICS COLLOQUIUM

DISTINGUISHED LECTURE SERIES

PDEs and addition formulae associated with trigonal curves

Dr. Chris Eilbeck
School of Mathematical and Computer Sciences, Heriot-Watt University, UK

Abstract: I consider generalizations of the elliptic Weierstrass $\wp$ function to curves of higher genus, especially trigonal curves of the form $y^3 = x^s + \ldots, s = 4, 5$. In the trigonal case, these functions give exact multi-periodic solutions of the Boussineq equation. The work also leads to new addition formulae for the classical Weierstrass function.

Date: Friday, April 20, 2007
Time: 2:50pm - 3:50pm
Place: MAGC 1.318

Refreshments will be served at 2:40pm.

For further information or for special accommodations, contact Dr. Karen Yagdjian at 381-2145, via email at yagdjian@utpa.edu, or visit www.math.panam.edu/colloquia.html