

Secret Student Seminar

Experimental Algebra & Geometry Lab

Non-Classical Symmetries of the Burgers-Huxley Equation

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Abstract

In this talk, first we give an introduction of the Lie symmetry reduction method for solving exact solutions of partial differential equations. Then we apply this technique to the Burgers-Huxley equation and derive the associated symmetry condition. Through analyzing the determining system we construct classical and non-classical infinitesimal generators, and obtain exact solutions accordingly under the certain parametric conditions. This is joint work with Dr. Zhaosheng Feng.

Date: Friday, November 18, 2011

Time: 2:00pm–3:00pm

Place: MAGC 1.302

Pizza and soda will be served at the presentation.

For further information or for special accommodations, please contact Dr. Sean Lawton via email at lawtonsd@utpa.edu.