

The USM Calculus Seminar Series



Announcing

A Colloquium Presentation
October 11, 2007 at 2:30 pm
Southern Hall 303

at The University of Southern Mississippi

Speaker: Jiu Ding

Department of Mathematics
University of Southern Mississippi

Title: *N*-dimensional law of of cosines derived from
calculus and linear algebra

Abstract:

Using a beautiful theorem from elementary calculus (MAT280 - Calculus IV) called the divergence theorem and elementary linear algebra, we prove an n -dimensional analog of the law of cosines in trigonometry. As a special case, we derive the n -dimensional analog of the famous Pythagorean Theorem in geometry.

Further Information

Refreshments are served from 2:20 pm until 2:30 pm in Southern Hall 303. Further details and information about this and other departmental activities is available online at http://www.math.usm.edu/bulletin_board/.