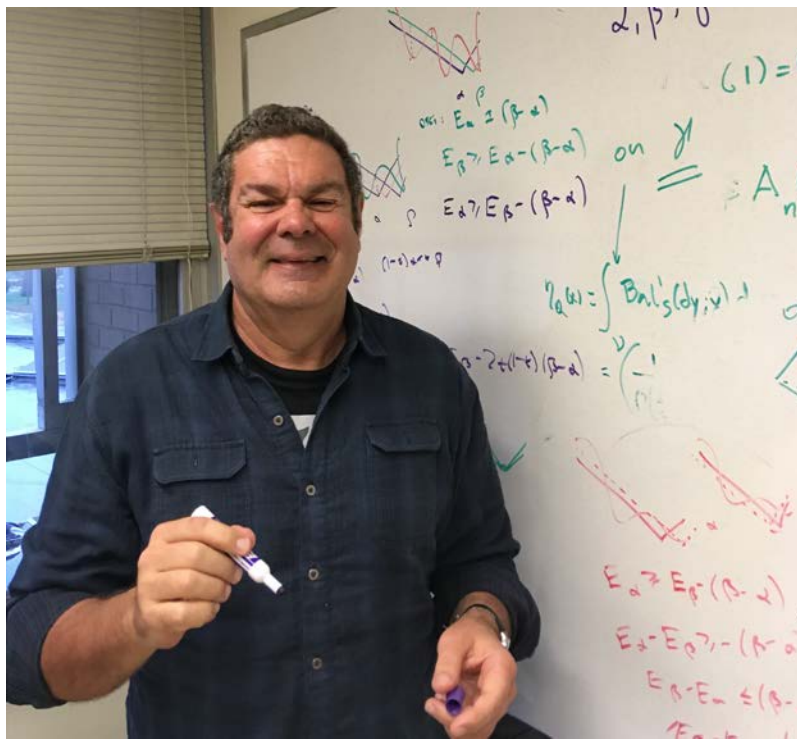# PURDUE FORT WAYNE™

Pi Math Club

Is pleased to present a talk by

Professor Ramón Orive
Universidad de La Laguna, Tenerife, Spain

"Some Cubature Formulas and their Applications to Filter Design"

We first to describe some simple cubature formulas which allow the numerical (approximate) integration of functions of several variables. This includes a brief description of the framework for numerical integration of functions, both of a single variable and of several variables. Then we will present a problem from Automatic Engineering and Control Theory: the filter design for dynamic systems such as "car-like robots" or "quadcopters". The above mentioned cubature formulas represent the core of the corresponding algorithms. We also discuss the efficiency of such methods by means of some practical examples.

Wednesday, Nov 13, 2019
at noon in KT 216
Open to all interested.
Free pizza and pop following the talk.