

Cal Poly Pomona Mathematics and Statistics
Department Colloquium

**How many tops and bottoms of mountains
can there be?**

By

Dr. Jorge Garcia

CSU Channel Islands

Abstract: Given a continuous function, it is intuitively clear that the set of points where the maxima or minima are achieved is countable. In this talk, we deal with the values of the maxima or minima for a continuous function. We wonder wheater or not this set is finite, countable or uncountable. Then we explore the same question for discountiuous functions. Finally we explore the same question for generalized local extrema and for any type of function.

Thursday, April 6th, 2007, 12:05 – 12:50 p.m. in 8-156

Refreshments served at 12 noon.