

## *Undergraduate Math and Physics Seminar*

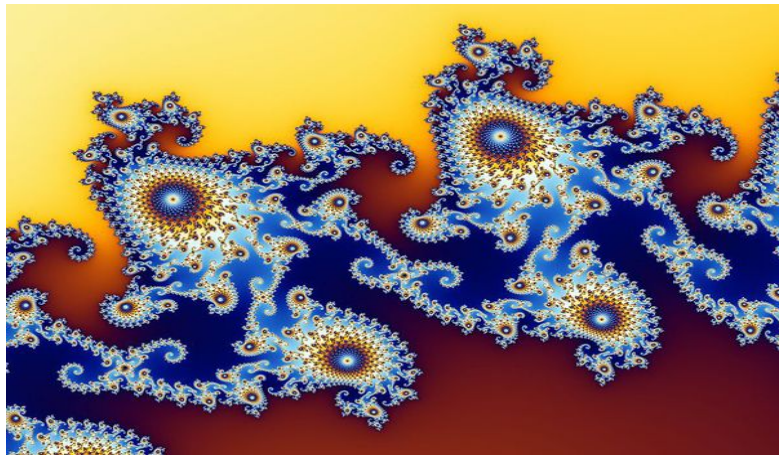
### An Introduction to Fractal Geometry

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**Abstract:**

The word 'fractal' was first coined by Benoit Mandelbrot in 1975 to describe mathematical monsters that exhibit highly irregular and counter-intuitive structure. However, to be monstrous is to be unnatural, and yet Mandelbrot's seminal book, *The Fractal Geometry of Nature*, reveals that nature itself exhibits fractal structure in a seemingly endless variety of ways. In this talk, we will discuss examples of fractals that arise from various natural and mathematical contexts and look into some of the mathematical tools that have been created to analyze these fascinating objects, including some recent work done by graduate and undergraduate students at Cal Poly Pomona.



*When:* Monday, September 19, 2016, 4:30-5:20 pm

*Where:* CSUCI, Del Norte 1530