



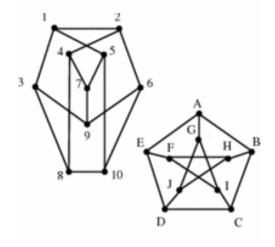
## Undergraduate Math and Physics Seminar Isomorphisms in Mathematics

## Speaker: Dr. Alfonso Zamora Saiz

## CSU Channel Islands

**Abstract:** Is it 2=2? Is it the number 2 equal to the set with 2 elements? Mathematics is the study of patterns in different structures. This is why the idea of being equal is useless and it is substituted by the notion of isomorphism: two structures will be isomorphic if they share the same properties. But not all isomorphic structures are the same equal, there are some more equal than others, leading to the idea of canonical isomorphism.

We will explore these ideas in different accessible contexts (set theory, algebra and topology) with surprising consequences, as Cantor's diagonal method of the relationship between dual vector spaces.



When: Monday, February 8th, 2016, 4:30-5:20 pm

Where: CSUCI, Del Norte 1530

One University Drive, Camarillo, California 93012-8599 Tel: (805) 437-8967 Fax: (805) 437-8864 www.csuci.edu