

The Mathematics and Statistics Club at Georgia State University presents...

Mathematical Music Theory

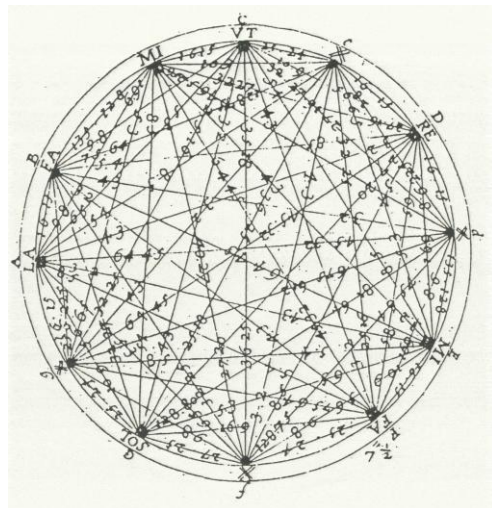
a lunchtime talk by

Dr. Mariana Montiel

Wednesday March 14th 2012

12pm-1pm

COE 796



In the first part of this talk we will give an overview of some historical antecedents of modern Mathematical Music Theory. We will also give a brief description of how certain notions and structures that this field has produced, such as maximal evenness and Vuza tiling (rhythmic) canons, have led to the solution of open problems in mathematics, as well as to applications in other sciences.

In the second part of the talk, we will learn to identify well-formed scales by the symmetry condition, understand the duality relation (Sturmian involution) as it applies to the six authentic modes, and get a notion of the mathematical motivation behind the development of the software Rubato Composer.

Free Pizza and Soda!