

# Mathematics Student Colloquium

**Prof. Lee Mosher**

## Crystallographic Groups

*Abstract: The set of symmetry groups of the Euclidean plane whose action is properly discontinuous and cocompact will be explicitly enumerated — there are 17 of them. These groups were known to medieval mathematicians who illustrated them in their paintings of the walls of the Alhambra. Work of more recent centuries has shown that such enumerations can be carried out in Euclidean space of any dimension.*

**Wednesday, October 29**

**4:00-5:00pm  
204 Smith Hall**