

1106-E1-1410 **Philip Joseph Lombardo*** (plombardo@sjcny.edu). *Music and the Symmetry Group of the Dodecagon*. Preliminary report.

In this presentation, we identify the vertices of a Dodecagon with the 12 pitch-classes of musical notes. Since the dihedral group D_{12} acts on the Dodecagon as rotations or reflections, we can explore the effect of these actions on the identified pitch-classes. The relationship established begs the question, can we use group actions to write music? (Received September 12, 2014)