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Inversion Cosets in Music Theory.

Inversions are a major tool in the composition of classical music. Sets of inversions can be classified according to the pivot note and seen to be cosets of a particular subgroup H in the dihedral group D of symmetries on the 12-gon. The partition of D by H gives insight to this aspect of music theory and provides an interesting teaching example to use to introduce undergraduates to groups. (Received July 22, 2006)