1099-42-132   **Doug Cochran*** (`cochran@asu.edu`), Arizona State University, PO Box 855706, Tempe, AZ 85287-5706. *Phase Space Analysis for Finite Abelian Groups.*

This presentation will begin with a survey of basic phase space analysis for finite groups, focusing on two particular cases: (1) cyclic groups of odd order, and (2) groups of the form G^n where G is a cyclic group of odd prime order. After establishing the necessary foundations, connections between important sequences in communications engineering and maximal isotropic subgroups of phase space for these groups will be discussed. This is joint work with Stephen Howard and Bill Moran. (Received February 04, 2014)