

EKU's Department of Mathematics and Statistics



THE WILSON ENDOWMENT SEMINAR SERIES

presents...

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Wreath products of association schemes

Association schemes first appeared in the design of experiments in statistics around 1950's, and were introduced in combinatorics as a generalization of distance-regular graphs. The theory of association schemes has proved to be useful in the study of error-correcting codes, combinatorial designs, groups, permutation groups, graphs, and group representation theory. Important classes of association schemes are coming from many algebraic structures, geometries and combinatorial objects. Association schemes are also constructed through various product operations from old. In this talk, we describe the structure of the Bose-Mesner algebras and Terwilliger algebras of the association schemes that are obtained as wreath products of trivial association schemes. Our aim is to show how these algebras help characterizing the structure of such association schemes.

Friday April 17, 2009
Wallace 429
11:15 a.m.