



School of Mathematical and Statistical Sciences

Distinguished Colloquium Series

Groups, Schemes, and Algebras

Dr. Harvey Blau

Northern Illinois University

Abstract

Groups and (more generally) association schemes are algebraic expressions of geometric and (more generally) combinatorial symmetry. Standard table algebras, an abstraction of the algebras that are built from groups and schemes, provide a framework for their study and generate many interesting questions. We shall present some basic definitions and examples, consider a class of standard table algebras that generalize an extension of one group by another, and discuss which of these algebras in fact arise from association schemes.

Short Bio of the Speaker

Harvey Blau is Emeritus Professor of Mathematical Sciences and Distinguished Teaching Professor at Northern Illinois University, his academic home since he received his Ph.D. from Yale University in 1969. His research areas are representations of finite groups and algebraic combinatorics, mostly via table algebras and their application to association schemes and other structures. He has done joint work with colleagues in Germany, Israel, and China, as well as in the United States. His teaching and curriculum interests include undergraduate Euclidean and non-Euclidean geometry.

Date: Friday, September 8th, 2023

Time: 4:00-5:00 pm CT

Location: EMAGC 2.418 & Zoom

Zoom: <https://utrgv.zoom.us/j/85342018323>

For further information or for special accommodations, please contact Dr. Alexey Glazyrin via email alexey.glazyrin@utrgv.edu and Dr. Paul-Hermann Zieschang via email paulhermann.zieschang@utrgv.edu