

## **Abstract**

This talk presents a comprehensive overview of recent advancements in the algebraic and geometric classification of several important classes of non-associative algebras and superalgebras. Our approach utilizes a combination of algebraic methods for identifying isomorphism classes and geometric techniques to describe the varieties of these algebras. By calculating the dimensions of the orbits and their closures, we establish the complete hierarchy of degenerations and identify the rigid algebras within each variety. These results contribute to the broader ongoing project of classifying low-dimensional non-associative structures and understanding their underlying geometric properties.