



The ARCS Seminar

An Introduction to Group and Groupoid C*-algebras for Algebraists, Part II

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Abstract: Group C*-algebras encode the unitary representation theory of a group within a C*-algebra and allow one to use functional analysis to study groups. In this series of two talks, I will introduce the group C*-algebra construction using the group ring as motivation. I will discuss a generalization that allows one to construct the C*-algebra of a groupoid (a group-like object where the operation is only partially defined). Groupoid C*-algebras include graph C*-algebras as special cases, and we will examine the graph groupoid that allows us to see this. I will assume no prerequisite knowledge of C*-algebras, and I will frequently examine constructions in the discrete case to emphasize the algebra and avoid the analysis.

Time and Place: Wednesday, September 29 from 4:30–5:30PM (Mountain Time Zone) in ENGR 239



The Rings and Wings Seminar is an activity of ARCS.
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