The ARCS Seminar

The Graded Classification Conjecture for graph algebras

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Abstract: The ordinary (pointed) K_0-group is not a complete invariant of algebras typically associated to a directed graph. When these algebras are considered as graded algebras and the definition of the K_0-group is adjusted to reflect the existence of this grading, the situation becomes more interesting. The Graded Classification Conjecture states that this adjusted version of the (pointed) K_0-group is a complete invariant of a Leavitt path algebra over a field (and this statement can be adapted for other graph algebras). We shall discuss the context in which this conjecture has been formulated, the current status of the conjecture, and some ongoing research. Time permitting, we shall also consider some other research directions and questions related to gradings of rings and graph algebras.

Time and Place: Wednesday, March 17 from 4:30–5:30PM (Mountain Time Zone) on Zoom. Contact Gene Abrams for the invitation link.

The Rings and Wings Seminar is an activity of ARCS.
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