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The structure of nonself-adjoint 2-graph algebras

A nonself-adoint 2-graph algebra is a unital WOT-closed algebra generated by 2 isometric tuples satisfying some commutation relations. In this talk, we show that such an algebra has a 2×2 lower triangular form, whose 1st column is a slice of its enveloping von Neumann algebra. We will also discuss that, in the case of atomic representations, one could decompose further to obtain a 3×3 lower triangular form, whose $(3,3)$-entry is an analytic 2-graph algebra.

This talk is based on recent joint work with Adam Fuller.