COLLOQUIUM

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When does a table algebra have rational multiplicities?

Mathematics and Statistics

Date: Friday, October 21, 2016
Time: 3:30 - 4:30 PM
Room: RIC 208

Abstract: A table algebra is a finite-dimensional associative algebra with involution over $\mathbf{C}$ whose distinguished basis $\mathbf{B}$ contains 1, is closed under pseudo-inverse, and admits nonnegative structure constants. In addition, a table algebra has a positive degree map and a standard feasible trace. The multiplicities of the irreducible characters in the standard feasible trace are the multiplicities of the table algebra. In this talk we investigate the properties of table algebras that force these multiplicities to be rational.

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