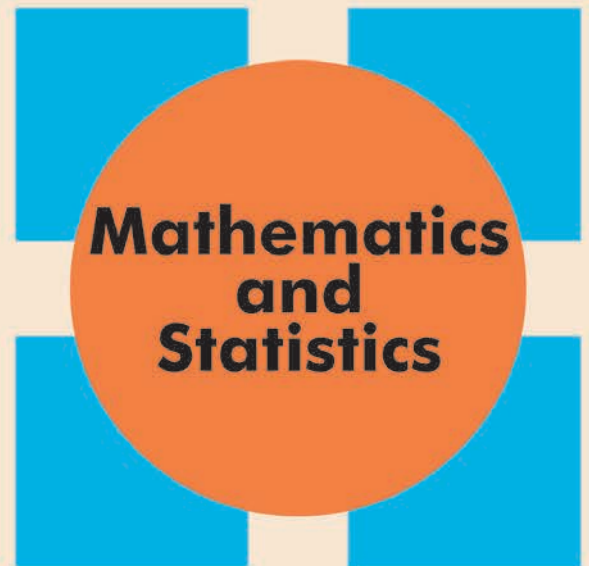


# COLLOQUIUM

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**When does a table algebra  
have rational  
multiplicities?**



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  $\mathbb{C}$  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.