Traces of Algebraic Elements in Group Algebras

Abstract:
If $K[G]$ denotes the group algebra of $G$ over the field $K$, then the trace map $tr : K[G] \rightarrow K$ picks off the identity coefficient of each element of the ring. In this talk, I will discuss what is known about traces of algebraic elements of $K[G]$. Of particular interest are the traces of idempotents and nilpotent elements. If time permits, I will also consider analogous results for twisted group algebras.

Host: Dan Rogalski

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