AARON LAUVE, Loyola University Chicago

Convolution Powers of the Identity in Graded Connected Hopf Algebras

We answer the question, "what are the eigenvalues of the k-th convolution power of the identity operator acting on a graded connected Hopf algebra?" Well, the answer is simple to state, "powers of k (for any integer k)." Thus, we'll spend most of the time talking about eigenvalue multiplicity, combinatorial implications, and a connection to the classical Frobenius–Schur indicators. This is joint work with Marcelo Aguiar (Texas A&M).