
JONATHAN KUJAWA, University of Oklahoma
On Cyclotomic Schur Algebras

The original Schur-Weyl duality is between the general linear group and the symmetric group with the Schur algebra acting as mediator. There is an analogous story when the symmetric group is replaced with the wreath product of a cyclic group and the symmetric group and the Schur algebra is replaced with the cyclotomic Schur algebra. We will discuss a presentation of these algebras in the spirit of Doty-Giaquinto and a categorification in the spirit of Khovanov-Lauda-Rouquier. This is joint work with Jieru Zhu.