

1125-16-1828      **Jieru Zhu\*** ([jieru.zhu-1@ou.edu](mailto:jieru.zhu-1@ou.edu)), 3001 Oak Tree Ave Apt L-12, Norman, OK 73072, and  
**Jonathan Kujawa.** *Presenting cyclotomic Schur algebras.*

A classical result states that the action of  $\mathfrak{gl}(V)$  and the symmetric group on  $d$  letters mutually centralize each other on the  $d$ -fold tensor of  $V$ . If  $V$  admits an action by  $\mathbb{Z}/r\mathbb{Z}$ , it induces an action of the wreath product of  $\mathbb{Z}/r\mathbb{Z}$  and the symmetric group on  $d$  letters. A Levi Lie subalgebra of  $\mathfrak{gl}(V)$  gives the full centralizer of this action, and we showed a presentation for the centralizing algebra (the cyclotomic Schur algebra.) When  $r = 2$ , this becomes a presentation for the Type B hyperoctahedral Schur algebra defined by Richard Green. (Received September 19, 2016)