

1123-20-312

**Nate Harman\*** ([nharman@mit.edu](mailto:nharman@mit.edu)), Department of Mathematics, Massachusetts Institute of Technology, Cambridge, MA 02139. *Integer valued polynomials and stable representation theory.*

First we'll discuss a connection between the ring of integer valued polynomials and the limiting behavior of the representation theory of symmetric groups  $S_n$  as  $n$  goes to infinity, verifying a prediction of Deligne about representations in positive characteristic. We will then discuss recent progress on  $q$ -deforming this entire picture, giving new results and predictions about the asymptotic behavior of the representation theory of finite general linear groups and Iwahori-Hecke algebras. (Received August 29, 2016)