

# Topology Seminar

**Burt Totaro**

of University of Cambridge will be speaking on

## New bounds for the cohomology and Chow ring of finite groups

on April 9 at 4:30 in  
MIT Room 2-131

Symonds (2010) showed that the cohomology ring of a finite group  $G$  with a faithful complex representation of dimension  $n$  is generated by elements of degree at most  $n^2$ . This was a remarkable advance, since no bound was known before. Symonds's proof combined equivariant cohomology with commutative algebra (Castelnuovo-Mumford regularity). We give better bounds for the cohomology ring of a  $p$ -group. The methods also apply to the Chow ring of algebraic cycles on  $BG$ .