

1058-18-3

Peter Webb*, University of Minnesota, School of Mathematics, 206 Church Street SE,
Minneapolis, MN 55455-0100. *Representations and cohomology of categories.*

Many of the standard properties of group representations are also valid for representations of categories (which include representations of groups, of posets and of quivers). I will introduce the basic notions and then survey several areas of recent development including the Schur multiplier and central extensions of categories, Xu's counterexample to the Snashall-Solberg conjecture, and stratification of category representations and a reformulation of Alperin's weight conjecture. (Received April 22, 2009)