

COHOMOLOGY RINGS OF EXTENDED POWERS AND OF FREE INFINITE LOOP SPACES

LORENZO GUERRA, PAOLO SALVATORE, AND DEV SINHA

ABSTRACT. We calculate mod- p cohomology of extended powers, and their group completions which are free infinite loop spaces. We consider the cohomology of all extended powers of a space together and identify a Hopf ring structure with divided powers within which cup product structure is more readily computable than on its own. We build on our previous calculations of cohomology of symmetric groups, which are the cohomology of extended powers of a point, the well-known calculation of homology, and new results on cohomology of symmetric groups with coefficients in the sign representation. We then use this framework to understand cohomology rings of related spaces such as infinite extended powers and free infinite loop spaces.

1. INTRODUCTION

Homotopy orbit spaces with respect to the symmetric group action on iterated products, known as extended powers, play many key roles in algebraic topology. Steenrod introduced them as a central character in the study of cohomology operations [Ste53]. Extended powers of spectra play an essential role in Nishida's proof of his Nilpotence Theorem [Nis75]. By the Barratt-Priddy-Quillen theorem [BP72], after group completion the infinite extended powers functor provides a model for the free infinite loop space functor Q . May and his collaborators demonstrated that the stable version of extended powers not only were essential in defining structured ring spectra but also provided access to a wide range of phenomena which had previously been ad-hoc [BMS86]. In addition to necessarily playing a role in derived algebra, modern applications of extended powers and free infinite loop spaces range widely from, for example, the calculus of functors [AM99] to the stable cohomology of mapping class groups [Gal04].

We focus on the cohomology rings of these spaces, as this ring structure is the most basic unstable homotopical structure. These rings have long been implicitly understood through homology and coproduct calculations [CLM76]. But calculations with such require application of Adem relations for Kudo-Araki-Dyer-Lashof operations, so are difficult to work with. Here, as in our work on symmetric groups and alternating groups [Gue17, GSS12, GS17], we find that cohomology ring structure is best understood when coupled with a transfer (or induction) product, first defined by Strickland and Turner [ST97]. Our techniques in this setting for example have led to further development of the Curtis-Wellington spectral sequence [Hus].

Our work is thus parallel to as well as building on the well-established homology calculations. In [CLM76], the homology of extended powers all together forms an algebra over the Dyer-Lashof algebra, which behaves similarly to and in fact can be related to the cohomology rings of spaces over the Steenrod Algebra [May70]. Our presentations capture cohomology ring structure as part of a larger structure as well, ultimately presenting cohomology as “universal component super-Hopf rigs with additive divided powers” which then have small, if any, sets of relations. Prior to the elaboration of such Hopf ring structures, calculations of mod-two cohomology rings of classifying spaces of symmetric groups – the extended powers of a point – had cumbersome descriptions [AM04, Fes02], and calculations were not made at all for odd primes.

We develop these needed algebraic notions in Section 2, and we encourage the reader to take a look at the statement of first main results, namely Theorems 2.34 through 2.38 to understand the goal of the algebraic work before going through the details of that section. Such statements are remarkably simple,

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