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## Cohomology Rings of Finite Groups: With an Appendix ...

Its origins are rooted in investigations of group theory and number theory, and it grew into an integral component of algebraic topology.

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## Cohomology Rings of Finite Groups - With an Appendix ...

For any finite group  $G$  one can consider the integral cohomology ring  $H^*(G, \mathbb{Z})$  and the ring  $R(G)$  of unitary characters (cf. w 6). For  $i$ -dimensional characters there is a well-known isomorphism  $H^i(G, \mathbb{Z}) \cong \text{Hom}(G, U(1))$ .

## Characters and cohomology of finite groups

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For a finite group  $G$ , the even part of this cohomology ring in characteristic  $p$ ,  $\otimes \mathbb{Z}[\frac{1}{p}]$  carries a lot of information about the group the structure of  $G$ , for example the Krull dimension of this ring equals the maximal rank of an abelian subgroup ( $\mathbb{Z}$ ).

## Group cohomology - Wikipedia

The cohomology groups with coefficients in an abelian group (which we may treat as a module over a unital ring, which could be or something else) are given by: where is the  $n$ -torsion submodule of, i.e., the submodule of comprising elements which, when multiplied by, give zero.

## Group cohomology of finite cyclic groups - Groupprops

In the last thirty years, group cohomology has developed a powerful connection with finite group representations. Unlike the early applications which were primarily concerned with cohomology in low degrees, the interactions with representation theory involve cohomology rings and the geometry of spectra over these rings.

## Cohomology Rings of Finite Groups, With an Appendix ...

Elementary abelian subgroup induction plays a crucial role in cohomology and representation theory of finite groups (see , , , , ,

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Dividing 64 Algebra and Applications). Roughly speaking, the results say that important cohomological properties hold for a group ring  $R[G]$ ,  $G$  finite and  $R$  an arbitrary ring (with 1), if and only if they hold for  $R[E]$  where  $E$  runs over all elementary abelian subgroups of  $G$ .

## On cohomology rings of infinite groups - ScienceDirect

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## Cohomology Rings of Finite Groups: With an Appendix ...

In mathematics, specifically in homology theory and algebraic topology, cohomology is a general term for a sequence of abelian groups associated to a topological space, often defined from a cochain complex. Cohomology can be viewed as a method of assigning richer algebraic invariants to a space than homology. Some versions

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of cohomology arise by dualizing the construction of homology. In other words, cochains are functions on the group of chains in homology theory. From its beginning in topology

## Cohomology - Wikipedia

Group cohomology has a rich history that goes back a century or more. Its origins are rooted in investigations of group theory and number theory, and it grew into an integral component of algebraic topology. In the last thirty years, group cohomology has developed a powerful connection with finite group representations. Unlike the early applications which were primarily concerned with ...

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## Cohomology Rings of Finite Groups: With an Appendix ...

Carlson (University of Georgia) explains group cohomology, from introductory material through recent developments in the field. Focus is on the interaction of group cohomology with representation theory,

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