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On the trivial and nontrivial cohomology with inner symmetry groups of some classes of operator algebras. (English) Zbl 1185.46049

Int. J. Math. Anal., Ruse 3, No. 5-8, 377-384 (2009).

The authors prove vanishing and non-vanishing results for certain specialized cohomology theories (e.g., dihedral and cyclic) applied to Banach algebras. For example, they prove that the reflexive and dihedral cohomology of a stable C^* -algebra vanishes while the dihedral cohomology of a commutative Banach algebra A having an involution and satisfying $\text{codim}A^2 > 1$ does not.

Reviewer: [Samuel Smith \(Philadelphia\)](#)

MSC:

- [46M20](#) Methods of algebraic topology in functional analysis (cohomology, sheaf and bundle theory, etc.)
- [46H05](#) General theory of topological algebras

Cited in 1 Review
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Keywords:

dihedral cohomology; cyclic cohomology; operator algebras

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