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Cohomology of groups is a fundamental tool in many subjects in modern mathematics. One important generalized cohmnology theory is the algebraic K theory, and algebraic K-groups of rings such as rings of integers and group ringsare important invariants of the rings. They have played important roles in algebra, geometric and algebraic topology, number theory, representation theory etc. Cohomologyof groups and algebraic K-groups are also closely related. For example, algebraic K-groups of rings of integers in number fields can be effectively studiedby using cohomology of arithmetic groups.

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