

THE SIMPLE PROOF FOR THE ISOMORPHISM OF LOCAL COHOMOLOGY MODULES

S. Salamian and M. Sabouri

Received June 1, 2014; Revised June 18, 2017

Abstract

Let *M* be an *R*-module over a commutative noetherian ring *R* and let *t* be a non negative integer. By using basic ways of methodes of local cohomology modules methodes, we prove for all *r*, $0 \le r \le t$, $H_{\mathfrak{a}}^{t-r}(H_{\mathfrak{b}}^{r}(M)) \in C$. Then $H_{\mathfrak{a}+\mathfrak{b}}^{t}(M) \in C$.

Keywords and phrases: local cohomology, Serre subcategory.

