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Closure of Minimal Extensions



M. EL HAJOUI, A. MIRI

Université Mohammed V; Faculté des Sciences;

Département de Mathématiques et Informatique;

B.P 1014 Rabat-MAROC

e-mail: hajoui4@yahoo.fr

 [Keywords](#)  
 [Authors](#)

**Abstract:** Let  $R$  be a commutative ring with a unit and  $M$  an  $R$ -module. In this paper we give a comparison between the  $F$ -closure in  $M$  of an  $R$ -submodule having a minimal extension and the closure of this minimal extension for the same Gabriel topology defined on the ring  $R$ . If  $J(R) \setminus F$  we prove that both closures are the same. Moreover, if  $R$  is Artinian or semi-simple then the converse also holds.

**Key Words:** Jacobson radical and closure of minimal extensions



[math@tubitak.gov.tr](mailto:math@tubitak.gov.tr)

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