

عنوان مقاله:

A scheme over quasi-prime spectrum of modules

محل انتشار:

مجله جبر و موضوعات مرتبط، دوره 2، شماره 1 (سال: 1393)

تعداد صفحات اصل مقاله: 13

نویسندگان:

A. Abbasi - University of Guilan

D. Hassanzadeh-Lelekaami - University of Guilan

خلاصه مقاله:

The notions of quasi-prime submodules and developed Zariski topology was introduced by the present authors in [1]. In this paper we use these notions to define a scheme. For an R -module M , let $X := \{Q \in \text{Spec}(M) \mid (Q :_R M) \in \text{Spec}(R)\}$. It is proved that (X, \mathcal{O}_X) is a locally ringed space. We study the morphism of locally ringed spaces induced by R -homomorphism $M \rightarrow N$, and also by ring homomorphism $R \rightarrow S$. Among other results, we show that (X, \mathcal{O}_X) is a scheme by putting some suitable conditions on M .

کلمات کلیدی:

Quasi, Quasi-prime submodule, prime submodule, quasi-primeful module, primeful module, quasi-prime-embedding module, developed Zariski topology, prime, embedding module

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