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Primary Finitely Compactly Packed Modules and S-Avoidance Theorem for Modules

Arwa Eid ASHOUR

Department of Mathematics

Islamic University of Gaza

Gaza-PALESTINE

e-mail: arashour@mail.iugaza.edu.ps

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



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

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**Abstract:** In this paper we introduce the concept of primary finitely compactly packed modules, which generalizes the concept of primary compactly packed modules. We first find the conditions that make the primary finitely compactly packed modules primary compactly packed. Also, several results on the primary finitely compactly packed modules are proved. In addition, the necessary and sufficient conditions for an R-module M to be primary finitely compactly packed are investigated. Finally, we introduce the S-Avoidance Theorem for modules.

**Key Words:** Primary submodules, primary compactly packed modules, primary finitely compactly packed modules, s-prime submodules, S-Avoidance Theorem for modules

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