On the dual notion of graded n-absorbing primary submodules

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Abstract

In this work, we first remind the dual of some classical graded concepts and then the dual of their extended graded notions is studied.

A functional equivalent condition to the concept of graded n-absorbing primary submodules is presented. Then we specify a dual notion of this concept in a certain sense, which we call that graded n-secondary submodules. Some interesting results and several useful examples of this class of graded submodules are presented.

Keywords

Graded primary submodules, Graded n-absorbing primary ideals, Graded n-absorbing primary submodules, Graded n-secondary submodules.

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