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Modules Over Non Noetherian Domains

Modules over Non-Noetherian Domains Laszlo Fuchs Luigi Salce American Mathematical Society. Table of Contents Preface xi List of Symbols xv Chapter I. Commutative Domains and Their Modules 1. Generalities on domains 1 2. Fractional ideals 9 3. Integral dependence 16 4. Module categories 22 5.

Modules over non-Noetherian domains (Book, 2001) [WorldCat ...

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MODULES OVER NON-NOETHERIAN DOMAINS - CORE

However, over a Dedekind domain the ideal class group is the only obstruction, and the structure theorem generalizes to finitely generated modules over a Dedekind domain with minor modifications. There is still a unique torsion part, with a torsionfree complement (unique up to isomorphism), but a torsionfree module over a Dedekind domain is no longer necessarily free.

Counterexample - modules over non-Noetherian domain

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An extension of S-noetherian rings and modules

A left Noetherian ring is left coherent and a left Noetherian domain is a left Ore domain. (Bass) A ring is (left/right) Noetherian if and only if every direct sum of injective (left/right) modules is injective. Every left injective module over a left Noetherian module can be decomposed as a direct sum of indecomposable injective modules.

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Therefore, we can conclude from the structure theorem that any finitely-generated projective module over a principal ideal domain is a free module. Don't get your hopes up though: there are many examples of non-free projective modules. But let's stick with principal ideal domains.

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Valuation rings are Bézout domains. Any non-Noetherian valuation ring is an example of a non-noetherian Bézout domain. The following general construction produces a Bézout domain S that is not a UFD from any Bézout domain R that is not a field, for instance from a PID; the case $R = \mathbb{Z}$ is the basic example to have in mind.

Structure theorem for finitely generated modules over a ...

A module is Artinian (respectively Noetherian) if and only if it is so over its ring of homotheties. An infinite direct sum of non-zero modules is neither Artinian nor Noetherian. A vector space is Artinian (respectively Noetherian) if and only if its dimension is finite. We now list some elementary facts

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about Artinian and Noetherian modules ...

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What is an easy example of non-Noetherian domain?

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Bézout domain - Wikipedia

Noetherian and integrally closed domains are examples of almost principal domains. Later, in [1], the authors extend this notion to non-necessarily integral domains in defining, for a given multiplicatively closed subset $S \subseteq A$ of a ring A , an ideal $a \subseteq A$ to be S -finite if there exist a finitely generated ideal $a' \subseteq a$ and an ...

Noetherian ring - Wikipedia

J. Levine, On the injective hulls of semi-simple modules, Trans. Amer. Math. Soc. 155 (1971) 115-126. Google Scholar

Modules over Non-Noetherian Domains - GBV

Modules over Non-Noetherian Domains Share this page László Fuchs; Luigi Salce. In this book, the authors present both traditional and modern discoveries in the subject area, concentrating on advanced aspects of the topic.

6. Artinian and Noetherian modules

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Decompositions of injective modules over non-noetherian ...

We approach the problem of classifying injective modules over an integral domain by using the tool of semistar operations. In light of the classical results obtained by Matlis in the case of Noetherian rings, we first study the structure of the so called semistar Noetherian domains, then we discuss how every semistar operation over a semistar Noetherian domain determines a special subclass of ...

Non-Noetherian domain but finitely generated ideals ...

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