DOKUZ EYLÜL UNIVERSITY FACULTY OF SCIENCE DEPARTMENT OF MATHEMATICS ALGEBRA GROUP https://math.deu.edu.tr/algebra-group/

ALGEBRA SEMINARS

On Isoartinian and Isonoetherian Modules

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ABSTRACT

In [1, 2], Facchini and Nazemian generalize the idea of Artinian and Noetherian modules by considering the chain conditions up to isomorphism. They call a module M isoartinan (resp. isomoetherian) if, for every descending (resp. ascending) chain $M \ge M_1 \ge M_2 \ge \cdots$ (resp. $M_1 \le M_2 \le M_3 \le \cdots$) of submodules of M, there exists an index $n \ge 1$ s.t. $M_n \cong M_i$ for every $i \ge n$. Similarly, M is called isosimple if M is non-zero and every non-zero submodule of M is isomorphic to M. In this seminar, we will give some properties of these three classes of modules.

References

- [1] A. Facchini and Z. Nazemian, Modules with chain conditions up to isomorphism. J. Algebra 453 (2016): 578–601.
- [2] A. Facchini and Z. Nazemian, Artinian dimension and isoradical of modules. J. Algebra 484 (2017): 66–87.

DATE AND TIME: 22nd of May, 2019, Wednesday, 14:30

PLACE: Dokuz Eylül University, Tınaztepe Campus, Faculty of Science Department of Mathematics, Buca/İzmir. Room B206.