HACETTEPE ÜNİVERSİTESİ MATEMATİK BÖLÜMÜ

GENEL SEMİNERİ

(HACETTEPE MATHEMATICS GENERAL SEMINAR)

Tarih (Date) : 15.12.2014, Pazartesi (Monday)

Saat (Time): 11:00

Yer (Place): Yaşar ATAMAN Seminer Salonu

Konuşmacı (Speaker): Edmund R.Puczylowski

(Institute of Mathematics, University of Warsaw)

Başlık (Title) : On linear properties of the Goldie dimension

Özet (Abstract) :

The Goldie dimension u(M) of a module M is defined as the supremum of all cardinalities λ such that M contains the direct sum of λ non-zero submodules. This gives a generalization of the linear dimension from linear spaces to modules. The linear dimension can be characterized in several other ways and this makes that it is so useful tool in many studies. In this context it is natural to ask which (or how far) the fundamental properties of the linear dimension can be extended to the Goldie dimension. Problems of that sort were studied in many papers. The aim of the talk is to present some old and new results concerning this topic. We will pay a particular attention to the dimension modules, i.e., modules M such that for arbitrary its submodules A, B,

$$u(A + B) + u(A \cap B) = u(A) + u(B).$$

NOT: Konuşma sonunda çay ve pasta ikramı olacaktır.
(P.S. Tea and cookies will be served after the talk.)