



## HACETTEPE ÜNİVERSİTESİ MATEMATİK BÖLÜMÜ GENEL SEMİNERİ

### (HACETTEPE UNIVERSITY MATHEMATICS GENERAL SEMINAR)

**Tarih (Date):** 13.04.2016, Çarşamba (Wednesday)

**Saat (Time):** 15:00

**Yer (Place):** Yaşar Ataman Seminer Salonu

**Konuşmacı (Speaker):** Mauricio Medina, The National Autonomous University of Mexico

**Başlık (Title):** Does an  $R$ -module look like a ring?

**Özet (Abstract):**

Given an associative ring  $R$  with unitary element, the multiplicative structure on  $R$  makes it both left and right  $R$ -module. Many definitions on rings come from definitions on its modules but there are definitions on rings that they are not given on modules, Many of those definitions are very related to the multiplicative structure of the ring for example primeness. In this talk we will try to understand how some properties that involve the product of ideals can be interpreted in terms of morphisms. With this point of view we will be able to generalize concepts such as (semi)prime ideal, nilpotent ideal and annihilator ideal to modules.