HACETTEPE ÜNİVERSİTESİ MATEMATİK BÖLÜMÜ
GENEL SEMİNERİ

(HACETTEPE UNIVERSITY MATHEMATICS
GENERAL SEMINAR)

Tarih (Date): 08.06.2016, Çarşamba (Wednesday)

Saat (Time): 15:00

Yer (Place): Yaşar Ataman Seminer Salonu

Konuşmacı (Speaker): Yrd. Doç. Dr. Fatma Altunbulak Aksu, Çankaya Üniversitesi

Başlık (Title): A new invariant in modular representation theory

Özet (Abstract):

A ghost in the stable module category of a finite group G is a map between modular representations of G which is invisible in Tate cohomology.
The Freyd's generating hypothesis(GH) for the stable module category of G is the statement that all ghosts between finitely generated modular representations of G are stably trivial. For most p-groups, GH fails. To measure the degree of this failure of GH, a new invariant, called ghost number, is defined by Chebolu-Christensen-Mináč.Determining the exact value of the ghost number is quite difficult in all but the simplest cases. It will be a general talk about some recent results and some problems about this invariant. This is a joint work with David J. Green.