ALGEBRA SEMINARS

Some problems related to the cohomology of an EI-category

By

Ergün Yalçın
(Bilkent)

Abstract: An EI-category is a category in which every endomorphism is an isomorphism. I will discuss some problems related to the cohomology of an EI-category. One possible approach to these problems is using E-resolutions introduced by Lueck. These resolutions give a spectral sequence for ext-groups over an EI-category, which can be used to explain obstructions for the existence of solutions to the problems that we are interested in. We show that a version of Lueck's spectral sequence also works for source free EI-categories, in particular, it works for a fusion system.

Date: February 25, 2019
Time: 10:40 – 11:50
Place: SA141 Mathematics Seminar Room

* Tea and cookies will be served before the talk. All are most cordially invited.