ALGEBRA SEMINARS

Obstructions for gluing biset functors

By

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Abstract: We develop an obstruction theory for the existence and uniqueness of a solution to the gluing problem for a destriction functor defined on the subquotients of a finite group G, and apply it to some well-known p-biset functors. The obstruction groups for this theory are the reduced cohomology groups of a category whose objects are the sections (U,V) of G with V not equal to 1, and whose morphisms are defined as a generalization of morphisms in the orbit category. Using this obstruction theory, we calculate the obstruction group for the Dade group of a p-group when p is odd. In this talk I will introduce the necessary definitions and discuss the main results of this work. This is joint work with Olcay Coşkun.

Date: April 1, 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.