ALGEBRA SEMINAR

Splendid Morita equivalences and Brauer indecomposability of Scott modules

By

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Abstract: Puig's Conjecture asserts that given a finite p-group P, there are only finitely many splendid Morita equivalence classes of blocks of finite groups with defect group isomorphic to P. The conjecture is known to be true when P is either cyclic or a Klein-four group and it is open for all other p-groups. When we restrict ourselves to principal blocks, there is a relationship between the splendid Morita equivalence of two blocks and the Brauer indecomposability of Scott modules. Recently, using the notion of Brauer indecomposability of Scott modules, Koshitani, Lassueur and Sambale have been able to show that Puig's Conjecture holds for principal 2-blocks of tame representation type. In this talk, after a short introduction the results along these lines together with our contribution will be presented.
This is a joint work with Shigeo Koshitani.

Date: Wednesday, October 26, 2022
Time: 11:00 – 12:00 (UTC+3)
Place: ZOOM. This is an online seminar. To request the event link, please send a message to d.yilmaz@bilkent.edu.tr