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FUSION SYSTEMS AND BRAUER INDECOMPOSABILITY OF SCOTT MODULES

İpek Tuvay

Mimar Sinan Güzel Sanatlar Üniversitesi

Abstract

The Brauer indecomposability of Scott modules is important for obtaining splendid Morita equivalences between the principal blocks of two finite groups whose fusion systems on their Sylow p -subgroups are isomorphic. In this talk, first the connection between the Brauer indecomposability of a p -permutation module and the saturation of the corresponding fusion system will be discussed. Then, recent results along these lines for some special families of 2-groups, including semidihedral and wreathed 2-groups, will be presented. Part of this work is joint with S. Koshitani.

Date : Monday, April 5, 2021

Time: 14:00