HACETTEPE ÜNİVERSİTESİ

MATEMATİK BÖLÜMÜ

GENEL SEMİNER

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📍 YAŞAR ATAMAN SALONU

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Alperin's Weight Conjecture and Functorial Equivalences

Alperin's weight conjecture (1987) is a central open problem in the modular representation theory of finite groups, predicting that the number of simple modules of a block is equal to the number of its weights. Over the past decades, many different approaches to this conjecture have been developed, and it has been a driving force in the development of block theory and local–global methods in representation theory. In this talk, we will present an equivalent reformulation of Alperin's conjecture in terms of diagonal p-permutation functors. This is joint work with Robert Boltje and Serge Bouc.

🌐 mat.hacettepe.edu.tr