ALGEBRA SEMINAR

A Functorial Classification of Blocks with Elementary Abelian Defect Group of Order Nine

By

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Abstract: In this talk, we introduce diagonal p-permutation functors and the notion of functorial equivalence between blocks. After recalling blocks, defect groups, and fusion systems, we describe how the functors associated with block algebras decompose into simple functors. We then explain how this decomposition can be used to classify certain blocks with defect group $C_3\times C_3$ up to functorial equivalence.

Date: 29 April 2026, Wednesday
Time: 13:30
Place: SA141