Simple endotrivial modules for quasi-simple groups
Gunter Malle (Kaiserslautern)

Endotrivial modules have been studied intensively in the last few years. We report about a program to classify simple endotrivial modules for quasi-simple groups. This is motivated by a recent result of Robinson saying that most simple endotrivial modules for finite groups come from quasi-simple groups. One of the main tools is a lifting result for endotrivial modules which allows us to apply methods and results from character theory. Joint work with C. Lassueur and E. Schulte.