

OBERSEMINAR ZUR ALGEBRA UND ALGEBRAISCHEN KOMBINATORIK

Dienstag, 18. Mai 2004, 14.15 Uhr, A410

Jon F. Carlson (Athens)

Endotrivial modules for Chevalley groups

I will discuss some work with Nadia Mazza and Dan Nakano on a classification of endotrivial modules for Chevalley groups. The group of endotrivial modules is a part of the Picard group of self equivalences of the stable category of modules over the group. We show how recently discovered methods using support varieties determine the rank of the torsion free part of the group. Other results depend on an analysis of the lattice of elementary abelian subgroups of the Chevalley group.