WESTFÄLISCHE
WILHELMS-UNIVERSITÄT
MÜNSTER

Einladung

Am Freitag, dem 11. Dezember 2009, Seminarraum N 2, 14.00 Uhr

spricht

Dr. Oksana Yakimova, Erlangen:

Über symmetrischen Invarianten nicht reduktiver Lie-Algebren

Zusammenfassung:

Coadjoint representation of a reductive Lie algebra g is a very well studied object and is known to have many nice properties, which do not hold in general. However there are some classes of Lie algebras, centralisers g_e of nilpotent elements in g, parabolic subalgebra, semi-direct products of g and Abelian ideals, where we can compute the algebra $S(q)^g$ of symmetric invariants and show that it behaves in a "reductive" way. For examples, if g is of type A or C, then $S(g_e)^{g_e}$ is a polynomial algebra in $r=rank\ g$ variables and all fibres of the quotient morphism are of pure dimension $dim\ g_{e-r}$.

Auf diesen Vortrag wird besonders hingewiesen

Joachim Cuntz, Dekan