

Algèbres non commutatives, théorie des représentations et fonctions
spéciales
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Non-commutative algebras, representation theory and special functions
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Pieri formula for the characters of complex simple Lie algebras

The goal of this talk is to present an explicit Pieri formula for the characters of complex simple Lie algebras, providing the tensor multiplicities in the products of general irreducibles with fundamental representations pertaining to highest weights of classical type. The Pieri formula in question is derived from a recurrence relation in the character ring obtained from a difference equation for the Heckman-Opdam hypergeometric parameter deformation of the zonal spherical function on the corresponding complex Lie group.