The Kac—Wakimoto character formula for the general linear superalgebra

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We shall discuss the problem of finding character formulae for Lie superalgebras and in particular, the Kac—Wakimoto formula which is an elegant closed formula that was stated in 1994 for a certain class of modules. We recently proved that this formula holds for the general linear superalgebra and that the class of modules to which it applies is precisely the class of Kostant modules, namely those for which all Kazhdan—Lusztig polynomials are monomials.

This is joint work with M. Chmutov and C. Hoyt.

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