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Derived representation type of Schur superalgebras

Assume K is an algebraically closed field of characteristic $p \neq 2$ and $S(m|n, d)$ is a Schur superalgebra over K. The representation type of Schur superalgebra $S(m|n, d)$ was determined by Hemmer, Kujawa and Nakano in 2006. The derived representation type for (classical) Schur algebra $S(n, d)$ was determined by Bekkert and Futorny in 2003.

In this talk we use these results to classify the derived representation type of the Schur superalgebra $S(m|n, d)$ as follows:

a) Assume that algebra $S(m|n, d)$ is semisimple, that is, one of the following conditions is satisfied: (i) $p = 0$, (ii) $d < p$, (iii) $m = n = 1$ and p does not divide d. Then $S(m|n, d)$ is of derived finite representation type.

b) If $S(m|n, d)$ is not semisimple, then $S(m|n, d)$ is of derived wild representation type.