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$U(h)$-free modules over the Lie superalgebras $sl(m|n)$

In this talk I will discuss the existence and classification of certain classes of $sl(m|n)$-modules which when restricted to the universal enveloping algebra $U(h)$ of a Cartan subalgebra h are free of finite rank. Particular results include: Classification of modules of rank 2; existence and structure of modules of higher rank; weight modules obtained from $U(h)$-free modules via the weighting functor.