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Tensor product affine wreath superalgebras

To every Frobenius superalgebra, we associate a family of superalgebras that we call tensor product affine wreath superalgebras. They can be viewed both as a tensor product version of Savage's affine wreath superalgebras, and as a degenerate Frobenius version of the tensor product affine Hecke algebras defined by Webster, Maksimau, and Stroppel. We establish the basic structure theory of these new superalgebras, including a basis theorem and a description of the center. Furthermore, in the Clifford setting, we relate them to the tensor product degenerate spin affine Hecke superalgebras via a Morita superequivalence.