Hopf25

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Tensor Algebras in the Representation Category of Taft Algebras

Starting with a bimodule M over an algebra A, one can form the tensor algebra $T_A(M)$ consisting of all finite tensors of elements from M with multiplication given by the tensor product over A. Following the work of Etingof-Kinser-Walton, we will take a closer look at how the construction of tensor algebras can be generalized to the abstract setting of (finite) tensor categories. I will conclude with discussing my current research on bimodules over algebras in the tensor category of finite dimensional representations of Taft algebras.