

TAFT ALGEBRAS ARE CYCLIC SERIAL

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Abstract. In this paper we show that the Taft algebra $T_{n^2, m, \lambda}$ is a product of n^{m-1} copies of Hopf algebras $T_{n^2, \lambda}$. We show also that these algebras are cyclic serial (in particular Nakayama), thus of finite representation type (FRT). These results are closely related to those of Green and Solberg [3] and Cibils and Rosso [2]. Green and Solberg give necessary conditions on the quiver associated to a basic finite dimensional Hopf algebra. Cibils and Rosso give necessary and sufficient conditions on a quiver Q such that its path algebra admits a structure of graded Hopf algebra.

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