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Tensor products of algebras taken from various classes of quotients of path algebras. Preliminary report.

For a directed graph E , we denote by \widehat{E} the doubled graph of E , obtained by adding an edge e^* corresponding to each edge e of E , but with opposite direction. For a graph E and field K , the *Cohn path algebra of E with coefficients in K* is the path algebra $K\widehat{E}$, modulo the so-called (CK1) relations: $e^*e = r(e)$ for each edge e of E (where $r(e)$ denotes the range vertex of e), and $f^*e = 0$ for each edge $f \neq e$. (So, for example, the Leavitt path algebra $L_K(E)$ can naturally be viewed as a quotient of $C_K(E)$.) In this talk we describe tensor products of algebras taken from various classes of quotients of path algebras. In particular, we present some partial results and observations regarding the tensor product of two Cohn path algebras. (Received January 30, 2013)