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We study another q -deformation of Brauer's centralizer algebra. It contains the Hecke algebras of type A as a subalgebra, where the embedding is determined by certain commuting square conditions. This is motivated by the problem of finding a rigorous construction of subfactors in connection with twisted loop groups. We also give formulas for indices and relative commutants of such subfactors. (Received September 14, 2009)