1003-16-745  Christopher Goff* (cgoff@pacific.edu), Department of Mathematics, 3601 Pacific Avenue, Stockton, CA 95211. 

Gauge Equivalent Twisted Quantum Doubles.

We exhibit an isomorphism between the fusion algebra of the quantum double of $G$, an extraspecial $p$-group, where $p$ is a prime, and the fusion algebra of a quantum double of an elementary abelian group $E$ twisted by a 3-cocycle on $E$. This provides a nontrivial example in which module categories arising from the twisted quantum doubles of two different groups are equivalent as braided tensor categories. (Received September 29, 2004)