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**Christopher Goff\*** ([cgoff@pacific.edu](mailto:cgoff@pacific.edu)), Department of Mathematics, 3601 Pacific Avenue,  
Stockton, CA 95211. *Fusion Rules for Abelian Extensions of Hopf Algebras.*

We investigate the representation theory of cocentral abelian extensions of Hopf algebras. In particular, we find central idempotents and use them to determine the fusion rules for such extensions. We then present a nontrivial example with noncommutative fusion rules, one which shows the abundance of such examples. (Received September 21, 2010)