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Luise-Charlotte Kappe and **Viji Thomas*** (vthomas@math.binghamton.edu), Department of Mathematical Sciences, PO Box 6000, Binghamton, NY 13902-6000. *On the nonabelian tensor product of finite groups of relatively prime order*. Preliminary report.

Given two finite abelian groups of relatively prime order, it is well known that their tensor product is trivial. We give an example of two finite abelian groups of relatively prime order whose nonabelian tensor product is nontrivial. We investigate necessary as well as sufficient conditions when the nonabelian tensor product of two finite groups of relatively prime order is trivial. (Received September 21, 2009)