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Ted Chinburg* (ted@math.upenn.edu), Dept. of Math, Univ. of Pennsylvania, 209 S. 33rd Street, Philadelphia, PA 19104. *Trilinear cup product pairings on curves over finite fields.*

This is joint work with Frauke Bleher on trilinear cup products in the étale cohomology of curves over finite fields. We will prove these cup products are generically non-degenerate. We will also prove some formulas for them using tools from Iwasawa theory. It is an open problem to find formulas that can be computed in polynomial time. (Received January 03, 2019)