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Karli A. Morris* (ksmith@math.lsu.edu), Department of Mathematics, Louisiana State University, Baton Rouge, LA 70806. *Trace Forms of Abelian Extensions of Number Fields*. Preliminary report.

In this paper I first give a brief introduction to trace forms of number fields. Then I classify and discuss the trace forms of some abelian extensions of number fields. (Received September 20, 2007)