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Kelly McKinnie* (kelly.mckinnie@umontana.edu), The University of Montana, Department of Mathematical Sciences, Mathematics Building, Missoula, MT 59812. *Degeneracy and Decomposability in Abelian Crossed Products.*

We discuss the connection between degeneracy and decomposability in abelian crossed products. In particular, a construction is given of a decomposable abelian crossed product defined by a non-degenerate matrix. This abelian crossed product has the property that it is in the Dec group with respect to one maximal subfield, but not with respect to another maximal subfield. (Received September 22, 2010)