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Yi-Jun YAO* (yao@math.psu.edu), Math Department, Penn State University, State College, PA 16802. *Positive Cocycles over Noncommutative 2-Tori*. Preliminary report.

We will discuss the definition of positive cocycles given by Connes and Cuntz twenty years ago and provide (relatively) detailed proofs of certain results. (Received February 03, 2009)