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Francisc Bozgan (franciscdodo@yahoo.com), **Anthony Sanchez*** (anthony.sanchez.1@asu.edu), **Cesar Silva** (cesar.e.silva@williams.edu), **David Stevens** (david.f.stevens@williams.edu) and **Jane Wang** (jywang@princeton.edu). *On the Classification of W -Measurably Sensitive Actions*. Preliminary report.

Notions of sensitivity for measurable dynamical systems have been studied recently by several authors. Grigoriev, Iordan, Lubin, Ince and Silva proved a dichotomy theorem for conservative, ergodic nonsingular endomorphisms in terms of W -measurable sensitivity. We study this classification in the context of nonsingular N^d actions. (Received September 18, 2013)