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Bethany Diane Springer* (springer@math.colostate.edu), 2824 Dundee Court, Fort Collins, CO 80525. *Continued Exploration of Nearly Continuous Even Kakutani Equivalence*. Preliminary report.

Nearly Continuous Dynamics blends together measurable dynamics and topological dynamics by asking that properties nearly hold, i.e. hold when restricted to sets both topologically large and measure theoretically large. Two ergodic near homeomorphisms T and S of compact metric spaces X and Y are said to be nearly continuously evenly Kakutani equivalent (nceKe) if there exists a measure preserving, nearly continuous homeomorphism $\phi : X \rightarrow Y$ mapping orbits bijectively to orbits and a nearly clopen set A of positive measure such that ϕ restricts to a n.c. conjugacy between induced systems T_A and $S_{\phi(A)}$. While it is known that nceKe is a stronger relation than even Kakutani equivalence, examples or systems which fail to be nceKe have thus far been contrived. Using Loosely Bernoulli systems as a test bed, M. Roychowdhury and D. Rudolph showed that any two odometers are nceKe, and A. Dykstra and D. Rudolph added irrational rotations of a circle to this class. While working with A. del Junco, we expanded this class to include any system built from a cutting and stacking of the unit interval as well as all minimal isometries of compact metric spaces. (Received September 21, 2012)