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Arek Goetz* (goetz@sfsu.edu), 1600 Holloway Avenue, San Francisco, CA 94132. *Cone Exchange Systems.*

We report on our recent results with Anthony Quas and a study with Peter Ashwin. The framework is a dynamical system of the plane divided into a finite number of cones. The cones are permuted and then shifted. Such a class of dynamical systems include polygonal dual billiards maps falls under the category of piecewise isometries, generalizations of interval exchange transformations. (Received September 12, 2007)