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Samuel Lelièvre, Laboratoire de mathématique d'Orsay, UMR 8628 CNRS / Université
Paris-Sud, Bâtiment 307, campus Orsay-vallée, 91405 Orsay cedex, France. *Periodic paths on the
pentagon.*

Periodic billiard paths on regular polygons are beautiful to look at, and have an elegant mathematical structure related to continued fractions. I'll remind you what happens on the familiar square, and then delve into our recent work on the regular pentagon, with lots of pictures. (Received February 15, 2018)