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Dmitri Scheglov* (dvs117@gmail.com), 1214-D Crown Point, Norman, OK 73072. *Long arithmetic progressions and triangle billiards.*

We discuss an interesting relation between the possible existence of periodic orbits for irrational triangle billiards and the existence of arbitrarily long monochromatic arithmetic progressions for some pseudo-dynamics of circle rotations. (Received February 17, 2010)