

1087-37-124

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([milena@mi.sanu.ac.rs](mailto:milena@mi.sanu.ac.rs)). *Pseudo-integrable billiards and arithmetic dynamics.*

We introduce a class of nonconvex billiards with a boundary composed of arcs of confocal conics which contain reflex angles. We present their basic topological and arithmetic properties. We study their periodic orbits and establish a local Poncelet porism. The connection with interval exchange transformation is established together with the Keane-type conditions for minimality. (Received December 01, 2012)