

1139-37-431

Maxim Arnold, Dmitry Fuchs, Ivan Izmistiev and Sergei Tabachnikov*

(tabachni@math.psu.edu). *A family of dynamical systems on ideal polygons*. Preliminary report.

Two labeled ideal polygons in the hyperbolic plane are said to make angle α if i -th side of the first polygon makes angle α with i -th side of the second one for all i . This defines a 1-parameter family of discrete dynamical systems on the moduli space of isometry equivalence classes of ideal polygons. I shall discuss complete integrability of these systems and related topics, including continuous limits. (Received February 18, 2018)